Aspire 5241 Series
Service Guide

Service guide files and updates are available on the ACER/CSD web; for more information, please refer to http://csd.acer.com.tw

PRINTED IN TAIWAN

Revision History

Please refer to the table below for the updates made on Acer Aspire 5241 Series service guides.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

`SCREEN MESSAGES`	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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Chapter 1

System Specifications

Features

Below is a brief summary of the computer’s many features:

Operating System

- Genuine Windows® 7™

Platform

- AMD Turion™ II dual-core processor*
- AMD Athlon™ 64 II dual-core processor*
- AMD Sempron™ processor*
- AMD M880G Chipset

System Memory

- Dual-channel support
- Up to 2 GB of DDR2 667 MHz memory, upgradeable to 4 GB using two soDIMM modules

Display

- 15.6" WXGA, HD 720p, 1366x768
- 16:9 aspect ratio

Graphics

- ATI Radeon™ HD 4570 (Aspire 5241) or 4200 Graphics

Storage subsystem

- 2.5" hard disk drive
- Multi-in-1 card-reader

Optical Drive

- DVD-Super Multi double-layer drive

Audio

- Two built-in stereo speakers
- High-definition audio support
- MS-Sound compatible

Dimensions and Weight

- 372.3 (W) x 246.5 (D) x 26.8/39.6 (H) mm (14.4 x 10.8 x 1.1/1.5 inches)
- 2.7 kg (6.0 lbs.) with 6-cell battery pack

Communication

- Integrated Acer Crystal Eyes webcam*
- WLAN:
  - Acer InviLink™ 802.11b/g/Draft-N*
  - Acer InviLink™ 802.11b/g*
- LAN: Fast Ethernet; Wake-on-LAN ready

Privacy control

- BIOS user, supervisor, HDD passwords
- Kensington lock slot

Power subsystem

- ACPI .0 3
- 48.8 W 4400 mAh PES-certified battery
- 3-pin 65 W AC adapter
- ENERGY STAR

Special keys and controls

- 99-/100-/103-key keyboard
- Multi-language support
- Touchpad Pointing Device

I/O interface

- Multi-in-1 card reader (SD™, MMC, MS, MS PRO, xD)
- USB 2.0 ports
- External display (VGA) port
- Headphones/speaker/line-out jack
- Microphone-in jack
- Ethernet (RJ-45) port

Environment

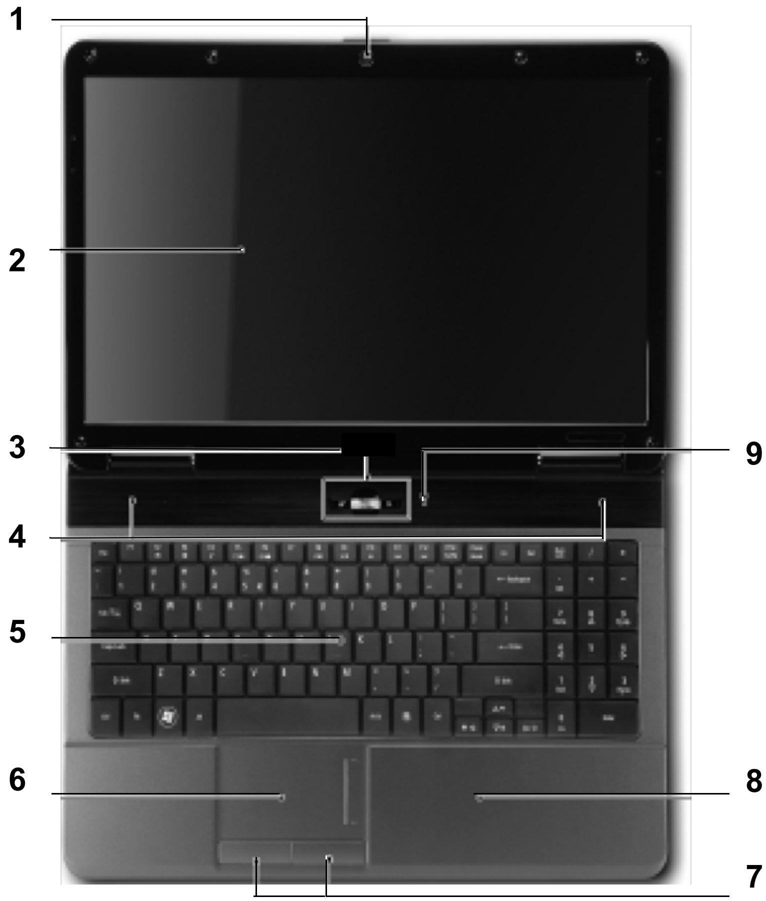
- Temperature:
  - Operating: 5 °C to 35 °C
  - Non-operating: -20 °C to 65 °C
- Humidity (non-condensing):
  - Operating: 20% to 80%
  - Non-operating: 20% to 80%

System Block Diagram TBD

Your Acer Notebook tour

After knowing your computer features, let us show you around your new computer.

Front View



No.	Icon	Item	Description
1		Acer Crystal Eye webcam	Web camera for video communication (for selected models).
2		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
3		Touchpad toggle	Turns the internal touchpad on and off.
		Power button	Turns the computer on and off.
		Wireless LAN communication button/indicator	Enables/disables the wireless LAN function. Indicates the status of wireless LAN communication.
4		Speaker	Left and right speakers deliver stereo audio output.
5		Keyboard	For entering data into your computer.

No.	Icon	Item	Description
6		TouchPad	Touch-sensitive pointing device which functions like a computer mouse.
7		Click buttons (left and right)	The left and right buttons function like the left and right mouse buttons.
8		Palmrest	Comfortable support area for your hands when you use the computer.
9		HDD	Indicates when the hard disk drive is active.

Closed Front View



No.	Icon	Item	Description
1		Power[1]	Indicates the computer's power status.
		Battery[1]	Indicates the computer's battery status. **1.** Charging: The light shows amber when the battery is charging. **2.** Fully charged: The light shows green when in AC mode.
2		Multi-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), Memory Stick (MS), Memory Stick PRO (MS PRO), xD-Picture Card (xD). **NOTE:** Push to remove/install the card. Only one card can operate at any given time.

NOTE: [1] The front panel indicators are visible even when the computer cover is closed

Rear View



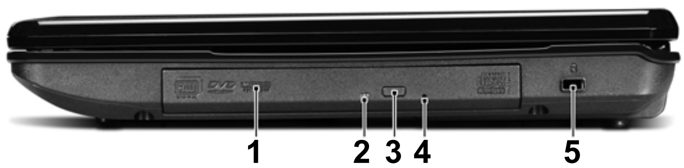
No.	Icon	Item	Description
1		Ventilation slots	Enable the computer to stay cool, even after prolonged use.

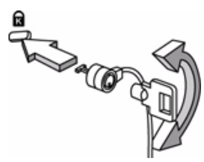
Left View



No.	Icon	Item	Description
1		DC-in jack	Connects to an AC adapter
2		Ethernet (RJ-45) port	Connects to an Ethernet 10/100-based network.
2		External display (VGA) port	Connects to a display device (e.g. external monitor, LCD projector).
4		USB 2.0 ports	Connect to USB 2.0 devices (e.g. USB mouse, USB camera).
5		Microphone-in jack	Accepts input from external microphones.
		Headphones/ speaker/line-out jack	Connects to audio line-out devices (e.g. speakers, headphones).

Right View



No.	Item	Description	
1		Optical drive	Internal optical drive; accepts CDs or DVDs.
2		Optical disk access indicator	Lights up when the optical drive is active.
3		Optical drive eject button	Ejects the optical disk from the drive.
4		Emergency eject hole	Ejects the optical drive tray when the computer is turned off. **Note:** Insert a paper clip into the emergency eject hole to eject the optical drive tray when the computer is off.
5		Kensington lock slot 	Connects to a Kensington-compatible computer security lock. **Note:** Wrap the computer security lock cable around an immovable object such as a table or handle of a locked drawer. Insert the lock into the notch and turn the key to secure the lock. Some keyless models are also available.

Bottom View



No.	Icon	Item	Description
1		Battery bay	Houses the computer's battery pack.
2		Battery release latch	Releases the battery for removal.
3		Battery lock	Locks the battery in position.
4		Hard disk bay	Houses the computer's hard disk (secured with screws).
5		Memory compartment	Houses the computer's main memory.
5		Ventilation slots and cooling fan	Enable the computer to stay cool, even after prolonged use. **Note**: Do not cover or obstruct the fan opening.

Indicators

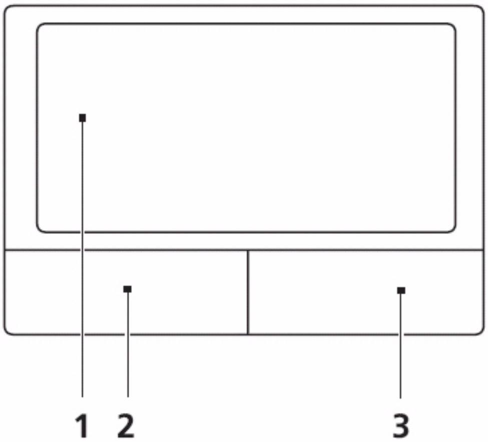
The computer has several easy-to-read status indicators. The front panel indicators are visible even when the computer cover is closed.

Icon	Function	Description
	Num Lock	Lights up when Num Lock is activated.
	Caps Lock	Lights up when Caps Lock is activated.

NOTE: 1. **Charging:** The light shows amber when the battery is charging. 2. **Fully charged:** The light shows green when in AC mode.

TouchPad Basics

The following items show you how to use the TouchPad:



- Move your finger across the TouchPad (1) to move the cursor.
- Press the left (2) and right (3) buttons located beneath the TouchPad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the TouchPad is the same as clicking the left button.

Function	Left Button (2)	Right Button (3)	Main TouchPad (1)
Execute	Quickly click twice.		Tap twice (at the same speed as double-clicking a mouse button).
Select	Click once.		Tap once.
Drag	Click and hold, then use finger on the TouchPad to drag the cursor.		Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the TouchPad on the second tap and drag the cursor.
Access context menu		Click once.	

NOTE: When using the TouchPad, keep it - and your fingers - dry and clean. The TouchPad is sensitive to finger movement; hence, the lighter the touch, the better the response. Tapping too hard will not increase the TouchPad's responsiveness.

Using the Keyboard

The keyboard has full-sized keys and an embedded numeric keypad, separate cursor, lock, Windows, function and special keys.

Lock Keys and embedded numeric keypad

The keyboard has three lock keys which you can toggle on and off.

Lock key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num Lock **<Fn> + <F11>**	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll Lock **<Fn> + <F12>**	When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications.

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Desired access	Num Lock on	Num Lock off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold **<Shift>** while using cursor-control keys.	Hold **<Fn>** while using cursor-control keys.
Main keyboard keys	Hold **<Fn>** while typing letters on embedded keypad.	Type the letters in a normal manner.

Windows Keys

The keyboard has two keys that perform Windows-specific functions.

Key	Description
Windows key	Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of functions: <>**:** Open or close the Start menu <> **+ <D>:** Display the desktop <> **+ <E>:** Open Windows Explore <> **+ <F>:** Search for a file or folder <> **+ <G>:** Cycle through Sidebar gadgets <> **+ <L>:** Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain) <> **+ <M>:** Minimizes all windows <> **+ <R>:** Open the Run dialog box <> **+ <T>:** Cycle through programs on the taskbar <> **+ <U>:** Open Ease of Access Center <> **+ <X>:** Open Windows Mobility Center <> **+ <BREAK>:** Display the System Properties dialog box <> **+ <SHIFT+M>:** Restore minimized windows to the desktop <> **+ <TAB>:** Cycle through programs on the taskbar by using Windows Flip 3-D <> **+ <SPACEBAR>:** Bring all gadgets to the front and select Windows Sidebar **<CTRL> +** <> **+ <F>:** Search for computers (if you are on a network) **<CTRL> +** <> **+ <TAB>:** Use the arrow keys to cycle through programs on the taskbar by using Windows Flip 3-D **Note:** Depending on your edition of Windows 7, some shortcuts may not function as described.
Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.

Hot Keys

The computer employs hotkeys or key combinations to access most of the computer’s controls like screen brightness, volume output and the BIOS utility.

To activate hot keys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.

Hotkey	Icon	Function	Description
<Fn> + <F2>		System property	Starts System Property for displaying system information.
<Fn> + <F3>		Bluetooth	Enables/disables the Bluetooth function. (only for certain models)
<Fn> + <F4>		Sleep	Puts the computer in Sleep mode.
<Fn> + <F5>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<Fn> + <F6>		Screen blank	Turns the display screen backlight off to save power. Press any key to return.
<Fn> + <F8>		Speaker toggle	Turns the speakers on and off.
<Fn> + <▷>		Brightness up	Increases the screen brightness.
<Fn> + <◁>		Brightness down	Decreases the screen brightness.
<Fn> + <△>		Volume up	Increases the sound volume.
<Fn> + <▽>		Volume down	Decreases the sound volume.

Special Key

You can locate the Euro symbol and the US dollar sign at the upper-center and/or bottom-right of your keyboard.

The Euro symbol

1. Open a text editor or word processor.
2. Hold <Alt Gr> and then press the <5> key at the upper-center of the keyboard.

NOTE: **Note**: Some fonts and software do not support the Euro symbol. Please refer to **www.microsoft.com/typography/faq/faq12.htm** for more information.

The US dollar sign

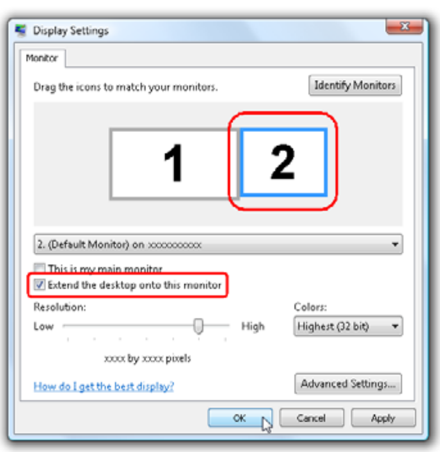
1. Open a text editor or word processor.
2. Hold **<Shift>** and then press the **<4>** key at the upper-center of the keyboard.

NOTE: This function varies by the operating system version.

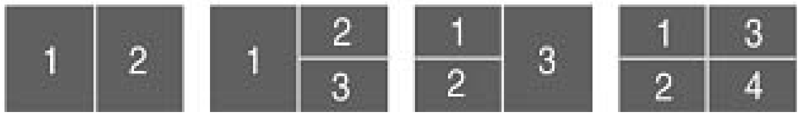
Acer GridVista (dual-display compatible)

NOTE: This feature is only available on certain models.

To enable the dual monitor feature of the notebook, first ensure that the second monitor is connected, then select **Start, Control Panel, Display** and click on **Settings**. Select the secondary monitor **(2)** icon in the display box and then click the check box **Extend my windows desktop onto this monitor**. Finally, click **Apply** to confirm the new settings and click **OK** to complete the process.



Acer GridVista is a handy utility that offers four pre-defined display settings so you can view multiple windows on the same screen. To access this function, please go to **Start**→ **All Programs** and click on **Acer GridVista**. You may choose any one of the four display settings indicated below:

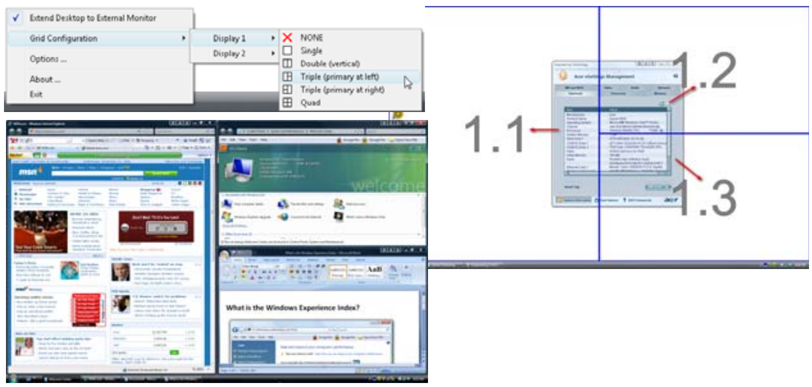


Double (vertical), Triple (primary at left), Triple (primary at right), or Quad Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

AcerGridVista is simple to set up:

1. Run Acer GridVista and select your preferred screen configuration for each display from the task bar.
2. Drag and drop each window into the appropriate grid.
3. Enjoy the convenience of a well-organized desktop.



NOTE: Please ensure that the resolution setting of the second monitor is set to the manufacturer's recommended value.

Hardware Specifications and Configurations

Processor

Item	Specification
CPU	• AMD Athlon64 M300 Dual-Core Processor, 2.0 GHz, 1M Cache • AMD Athlon64 M320 Dual-Core Processor, 2.1GHz, 1 M Cache • AMD SempronM M100 Single-Core Processor, 2.0 GHz, 512 K Cache • AMD TurionII Processor, Dual-Core Processor, 2.2GHz, 1 M Cache • AMD TurionII Processor, Dual-Core Processor, 2.3GHz, 1 M Cache
Core Logic	• TBD
CPU Package	TBD
Power	35W (25W for Sempron Processor)
On-die Cache	Up to 1MB L2 cache
Front Side Bus	667/800/1066MHz

Processor Specifications

Item	CPU Speed	Cores	Bus Speed	Mfg Tech	Cache Size	Package	Core Voltage	Acer P/N
AAM300	2.0 GHz	2			1 M		35W	KC.AM002.300
AAM320	2.1 GHz	2			1 M		35 W	KC.AM002.320
SMPM100	2.0	1	TBD		512 K		25 W	KC.SM002.100
ATM500	2.2	2			1 M		35 W	KC.TM002.500
ATM520	2.3	2			1 M		35 W	KC.TM002.520

CPU Fan True Value Table

Fan On Temp (°C)	Fan Speed (rpm)	SPL Spec (dBA)
55	3000	28
60	3300	31
65	3700	34
75	4100	37
80	4500	40

- Throttling 50%: On=90°C, Off=80°C
- OS Shutdown: 95°C
- H/W Shutdown: 92°C

Northbridge

Item	Specification
Chipset	ATI RS880MN
Package	TBD

Southbridge

Item	Specification
Chipset	ATI SB710
Package	549 BGA

BIOS

Item	Specification
BIOS vendor	InsydeH20
BIOS Version	V1.00

Item	Specification
BIOS ROM type	Flash
Features	• Flash ROM 1MB • Support ISIPP • Support Acer UI • Support multi-boot • Suspend to RAM (S3) • Various hot-keys for system control • Support SMBIOS 2.3, PCI2.2. • DMI utility for BIOS serial number configurable/asset tag • Support PXE • Support Y2K solution • Support WinFlashWake on LAN from S3 • System information • Support Win Flash Wake on LAN from S3 • Wake on LAN form S4 in AC mode • System information

System Memory

Item	Specification
Memory controller	TBD - CONFIRM ATI RS780MN + ATI SB710
Memory size	4GB maximum
DIMM socket number	2
Supports memory size per socket	2GB
Supports maximum memory size	4GB (total)
Supports DIMM type	200-pin +1.8V DDRII
Supports DIMM Speed	667/800 MHz
Supports DIMM voltage	1.8V
Cache	Upto 1MB L2 Cache on CPU

Memory Combinations

Slot 1	Slot 2	Total Memory
0MB	512MB	512MB
0MB	1024MB	1024MB
0MB	2048MB	2048MB
512MB	512MB	1024MB
512MB	1024MB	1536MB
512MB	2048MB	2560MB
1024MB	0MB	1024MB
1024MB	512MB	1536MB
1024MB	1024MB	2048MB
1024MB	2048MB	3072MB
2048MB	0MB	2048MB
2048MB	512MB	2560MB
2048MB	1024MB	3072MB
2048MB	2048MB	4096MB

NOTE: Above table lists some system memory configurations. You may combine DIMMs with various capacities to form other combinations. On above table, the configuration of slot 1 and slot 2 could be reversed.

LAN Interface

Item	Specification
LAN Chipset	Atheros AR8132L
Package	48 pin QFM
LAN connector type	RJ45
LAN connector location	Left Side

Wireless Module 802.11b/g/n

Item	Specification	
Manufacturer	Foxconn Broa	dcom
Model	Atheros xb93	Broadcom 43225

Hard Disk Drive Interface

Item	Specification			
Vendor & Model Name	Seagate ST9500325AS ST9160314AS ST9250315AS ST9320325AS	HitachiT HTS545016B9A300 HTS545025B9A300 HTS545032B9A300 HTS545050B9A300 HTS545050B9A300	Toshiba MK1655GSX MK1655GSX MK2555GSX MK2565GSX MK3263GSX MK3265GSX MK5065GSX MK6465GSX	WD WD1600BEVT WD2500BEVT WD3200BEVT WD5000BEVT WE6400BEVT
Capacity (MB)	500, 250, 320	160, 250, 320, 500	320, 250, 160, 500, 640	640, 500, 320, 250, 160
Bytes per sector	512	512	512	512
Data heads	4, 2	4,2	4, 2	4, 3, 2
Drive Format				
Disks	2, 1	2, 1	2, 1	2, 1

Item	Specification			
Spindle speed (RPM)	5400	5400	5400	5400
Performance Specifications				
Buffer size	8 MB	8 MB	8 MB	8 MB
Interface	SATA	SATA	SATA	SATA
Internal transfer rate (Mbits/sec, max)	352	300	395~952 (typical)	850
I/O data transfer rate (Mbytes/sec max)	150	300	300	300 maximum
DC Power Requirements				
Voltage tolerance	5V ±5%	5V ±5%	5V ±5%	5V ±5%

Super-Multi Drive

Item	Specification			
Vendor & model name	HLDS GT30N LF		Sony AD7585H LF	
Performance Specification	With CD Diskette	With DVD Diskette	With CD Diskette	With DVD Diskette
Transfer rate (MB/sec)	Sustained: 3,600 KB/s (24x) max.	Sustained: 11.08 Mbytes/s (8x) max.	Sustained: 1,571 (typical)	Sustained: 10,993 (typical)
Buffer Memory	2 MB			
Interface	SATA			

Item	Specification	
Applicable disc formats	• DVD-ROM: • 4.7GB (Single Layer) • 8.5GB (Dual Layer) • DVD-R: • 3.95GB (Ver. 1.0: read only) • 4.7GB (Ver. 2.0 for Authoring: read only) • 4.7GB (Ver. 2.1 for General: read & write) • (DL) 8.5GB (Ver. 3.0) • DVD-RW: • 4.7GB (Ver. 1.2/ Rev 1.0, 2.0, 3.0) • DVD-RAM: 1.46GB/side, 4.7GB/side (Ver. 2.2) • DVD+R: 4.7GB (Ver. 1.3) • (DL) 8.5GB (Ver. 1.1) • DVD+RW: • 4.7GB (Vol.1 Ver.1.3) • CD-ROM Mode-1 data disc • CD-ROM Mode-2 data disc • CD-ROM XA, CD-I, Photo-CD Multi-Session, Video CD • CD-Audio Disc • Mixed mode CD-ROM disc (data and audio) • CD-Extra • CD-Text • CD-R (Conforming to “Orange Book Part 2”: read & write) • CD-RW (Conforming to “Orange Book Part 3”: read & write)	DVD Read: DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-Video, DVD-Audio, SACD (Hybrid), UDF DVD, DVD-R, DVD-R DL, DVD-R 3.95 GB, DVD-R Authoring, DVD-R Multi-Border, DVD-RW, DVD+R, DVD+R DL, DVD+R Multi-Session, DVD+RW, DVD-RAM V1.0, DVDRAM V2.0 & 2.1 &2.2. CD Read: CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, CD-i Bridge, Video-CD (MPEG-1), Karaoke CD, Photo-CD, Enhanced CD, CD Plus, CD Extra, itrax CD, CD-Text, UDF CD, CD-R, and CD-RW DVD Write: DVD Data & Video CD Read: CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, Video- CD, CD-Text
Loading mechanism	Drawer (Solenoid Open) Tact SW (Open) Emergency Release (draw open hole)	
Power Requirement		
Input Voltage	DC 5 V +/- 5%	

Audio Interface

Item	Specification
Chipset	Realtek ALC272X
Package	48-pin LQFP ‘Green’
Features	High Definition Audio Codec with Dolby Digital Live

Audio Amplifier

Item	Specification
Model	
Package	
Features	•

Speakers

Item	Specification
Vendor and Model	
Dimensions	
Weight	
Nominal Impedance	4Ohm
Power Rating	2W
Output Sound Pressure Level	
Frequency Range	
Distortion	

Microphone

Item	Specification
Vendor and Model	
Directivity	
Current Consumption	
S/N Ratio	
Frequency	

Power and Keyboard Controller

Item	Specification
Controller	EM-7Tv2
Package	
Features	• Touchpad pointing device
Supply Current	
Total number of keypads	99-/100-/103-key keyboard
Windows logo key	Yes
Hotkeys	See “Hot Keys” on page 12.

Battery

Item	Specification
	6 Cell
Vendor & model name	SANYO/SONY/PANASONIC/SIMPLO AS2009A
Battery Type	Li-ion
Pack capacity	4400 mAh
Normal Voltage	2.2 Ah
Package configuration	3S2P

LCD 15.6”

Item	Specification
Vendor/model name	CMO N156B3-L02
Screen Diagonal (mm)	396.2
Display Area (mm)	344.23 x 193.54
Display resolution (pixels)	1366 x 768
Pixel Pitch	0.252

Item	Specification
Display Mode	Normal (white)
Typical White Luminance (cd/m^2) (also called Brightness)	220
Contrast Ratio	500:1
Response Time (Optical Rise Time/Fall Time) msec	8
Input Voltage	
Typical Power Consumption (watt)	5.75
Weight (with inverter)	500
Physical Size (mm)	359.3 x 209.5 x 5.9
Electrical Interface	LVDS
Support Color	262K
Viewing Angle (up/down/right/left)	20/45/45/45°
Temperature Range (°C) Operating Storage (shipping)	 0 to +50 -20 to +60

Fan

Item	Specification
Type	
Pin number	
Speed	
Air flow	
Power	

Card Reader

Item	Specification
Part Name	5-in1 card reader
Package	Built-in
General Features	• PCI-E interface • Push-push type • Dummy card

System Utilities

BIOS Setup Utility

The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/ Output System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 4 Troubleshooting when problem arises.

To activate the BIOS Utility, press **F2** during POST (when "Press <F2> to enter Setup" message is prompted on the bottom of screen).

Press **F2** to enter setup. The default parameter of F12 Boot Menu is set to "disabled". If you want to change boot device without entering BIOS Setup Utility, please set the parameter to "enabled".

Press <F12> during POST to enter multi-boot menu. In this menu, user can change boot device without entering BIOS SETUP Utility.

Navigating the BIOS Utility

There are six menu options: Information, Main, Advanced, Security, Boot, and Exit.

Follow these instructions:

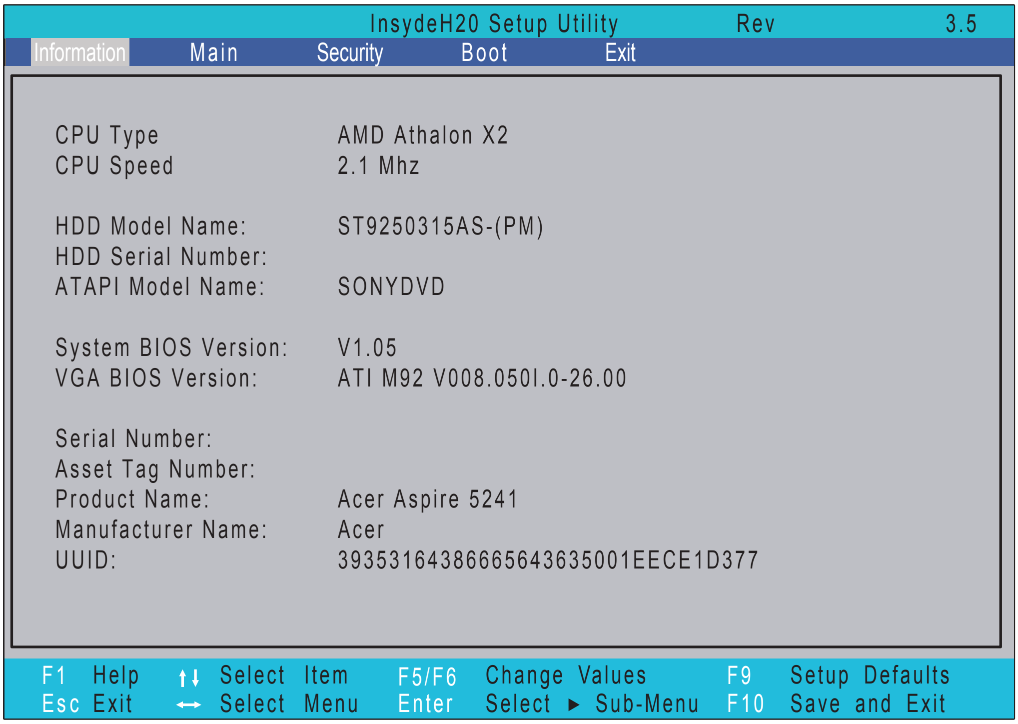
- To choose a menu, use the left and right arrow keys.
- To choose an item, use the up and down arrow keys.
- To change the value of a parameter, press **F5** or **F6**.
- A plus sign (+) indicates the item has sub-items. Press **Enter** to expand this item.
- Press **Esc** while you are in any of the menu options to go to the Exit menu.
- In any menu, you can load default settings by pressing **F9**. You can also press **F10** to save any changes made and exit the BIOS Setup Utility.

NOTE: You can change the value of a parameter if it is enclosed in square brackets. Navigation keys for a particular menu are shown on the bottom of the screen. Help for parameters are found in the Item Specific Help part of the screen. Read this carefully when making changes to parameter values. **Please note that system information is subject to different models**.

Aspire 5241 BIOS

Information

The Information screen displays a summary of your computer hardware information.



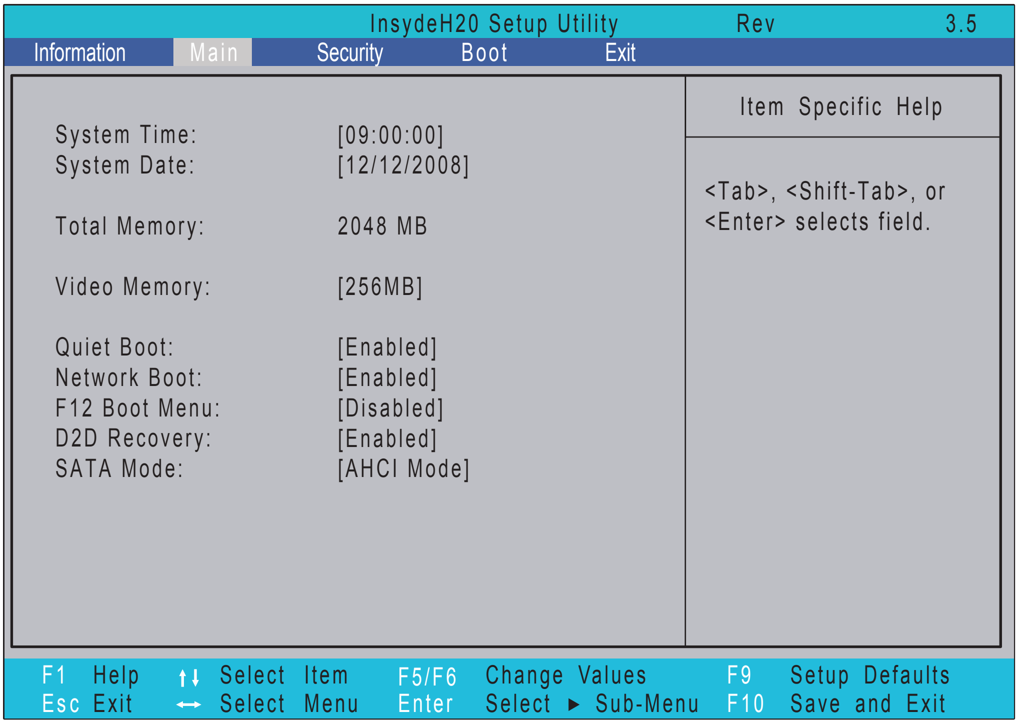
NOTE: The screen above is for your reference only. Actual values may differ according to model.

The table below describes the parameters in this screen.

Parameter	Description
CPU Type	This field shows the CPU type and speed of the system.
CPU Speed	This field shows the speed of the CPU.
HDD Model Name	This field shows the model name of HDD installed on primary IDE master.
HDD Serial Number	This field displays the serial number of HDD installed on primary IDE master.
ATAPI Model Name	This field shows the model name of the Optical device installed in the system.
System BIOS Version	Displays system BIOS version.
VGA BIOS Version	This field displays the VGA firmware version of the system.
Serial Number	This field displays the serial number of this unit.
Asset Tag Number	This field displays the asset tag number of the system.
Product Name	This field shows product name of the system.
Manufacturer Name	This field displays the manufacturer of this system.
UUID Number	Universally Unique Identifier (UUID) is an identifier standard used in software construction, standardized by the Open Software Foundation (OSF) as part of the Distributed Computing Environment (DCE).

Main

The Main screen allows the user to set the system time and date as well as enable and disable boot option and recovery.



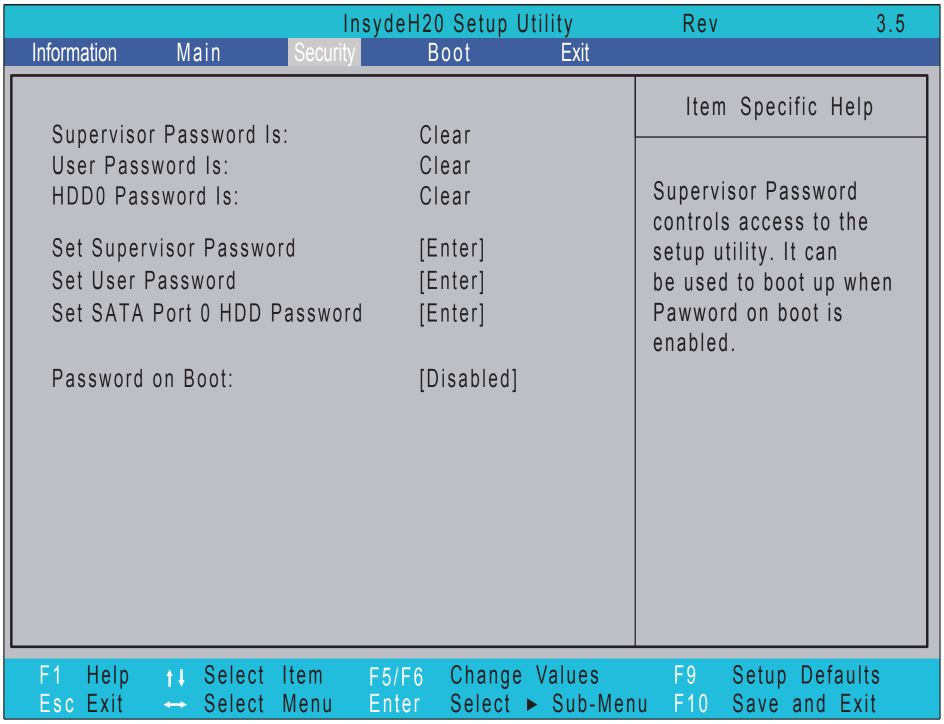
NOTE: The screen above is for your reference only. Actual values may differ.

The table below describes the parameters in this screen.

Parameter	Description	Format/Option
System Time	Sets the system time. The hours are displayed with 24-hour format.	Format: HH:MM:SS (hour:minute:second)
System Date	Sets the system date.	Format MM/DD/YYYY (month/day/year)
Total Memory	This field reports the memory size of the system.	N/A
Video Memory	This field shows the memory allocated for the video graphics.	N/A
Quiet Boot	Allows startup to skip certain tests while booting, decreasing the time needed to boot the system.	Option: **Enabled** or Disabled
Network Boot	Enables, disables the system boot from LAN (remote server).	Option: **Enabled** or Disabled
F12 Boot Menu	Enables, disables Boot Menu during POST.	Option: **Enabled** or Enabled
D2D Recovery	Enables, disables D2D Recovery function. The function allows the user to create a hidden partition on hard disc drive to store operation system and restore the system to factory defaults.	Option: **Enabled** or Disabled
SATA Mode	Control the mode in which the SATA controller should operate.	Option: **AHCI** or IDE

Security

The Security screen contains parameters that help safeguard and protect your computer from unauthorized use.



The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Option
Supervisor Password Is	Shows the setting of the Supervisor password	**Clear** or Set
User Password Is	Shows the setting of the user password.	**Clear** or Set
HDD0 Password	Shows the setting of the hard disk password.	**Clear** or Set
Set Supervisor Password	Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters.	N/A
Set User Password	Press Enter to set the user password. When user password is set, this password protects the BIOS Setup Utility from unauthorized access. The user can enter Setup menu only and does not have right to change the value of parameters.	N/A
Set SATA Port0 HDD Password	Enter HDD Password.	N/A
Password on Boot	Defines whether a password is required or not while the events defined in this group happened. The following sub-options are all requires the Supervisor password for changes and should be grayed out if the user password was used to enter setup.	**Disabled** or Enabled

NOTE: When you are prompted to enter a password, you have three tries before the system halts. Don't forget your password. If you forget your password, you may have to return your notebook computer to your dealer to reset it.

Setting a Password

Follow these steps as you set the user or the supervisor password:

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Supervisor Password box appears:



2. Type a password in the "Enter New Password" field. The password length can not exceed 8 alphanumeric characters (A-Z, a-z, 0-9, not case sensitive). Retype the password in the "Confirm New Password" field.

IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.

3. Press **Enter**. After setting the password, the computer sets the User Password parameter to "Set".
4. If desired, you can opt to enable the Password on boot parameter.
5. When you are done, press F10 to save the changes and exit the BIOS Setup Utility.

Removing a Password

Follow these steps:

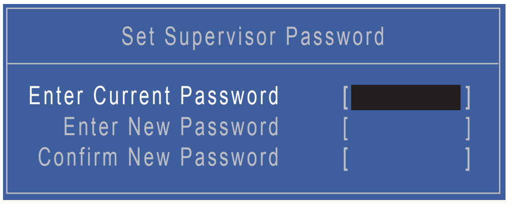
1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Password box appears:



2. Type the current password in the Enter Current Password field and press **Enter**.
3. Press **Enter** twice **without** typing anything in the Enter New Password and Confirm New Password fields. The computer then sets the Supervisor Password parameter to "Clear".
4. When you have changed the settings, press u to save the changes and exit the BIOS Setup Utility.

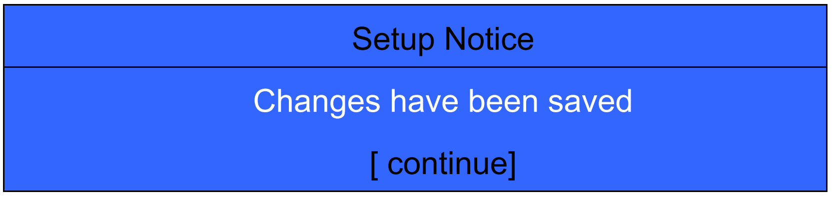
Changing a Password

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Password box appears.



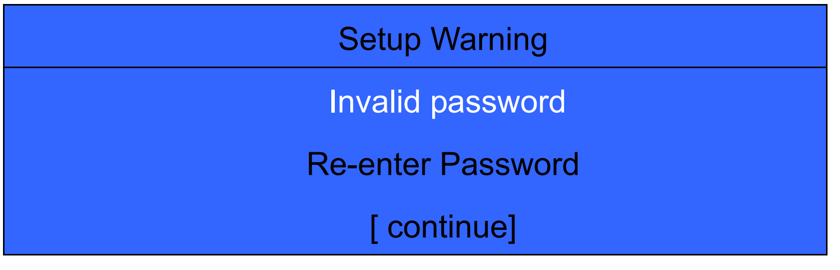
2. Type the current password in the Enter Current Password field and press **Enter**.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press **Enter**. After setting the password, the computer sets the User Password parameter to “Set”.
5. If desired, you can enable the Password on boot parameter.
6. When you are done, press F10 to save the changes and exit the BIOS Setup Utility.

If the verification is OK, the screen will display as following.

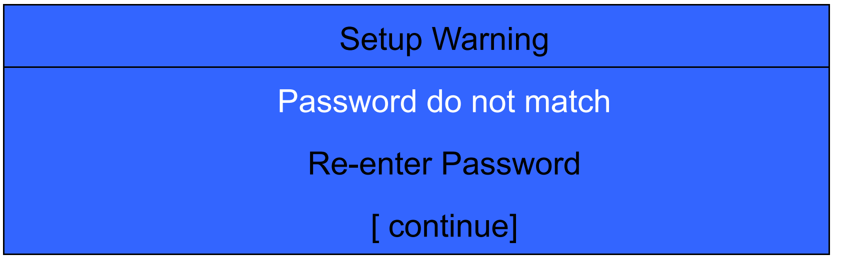


The password setting is complete after the user presses **Enter**.

If the current password entered does not match the actual current password, the screen will show you the Setup Warning.



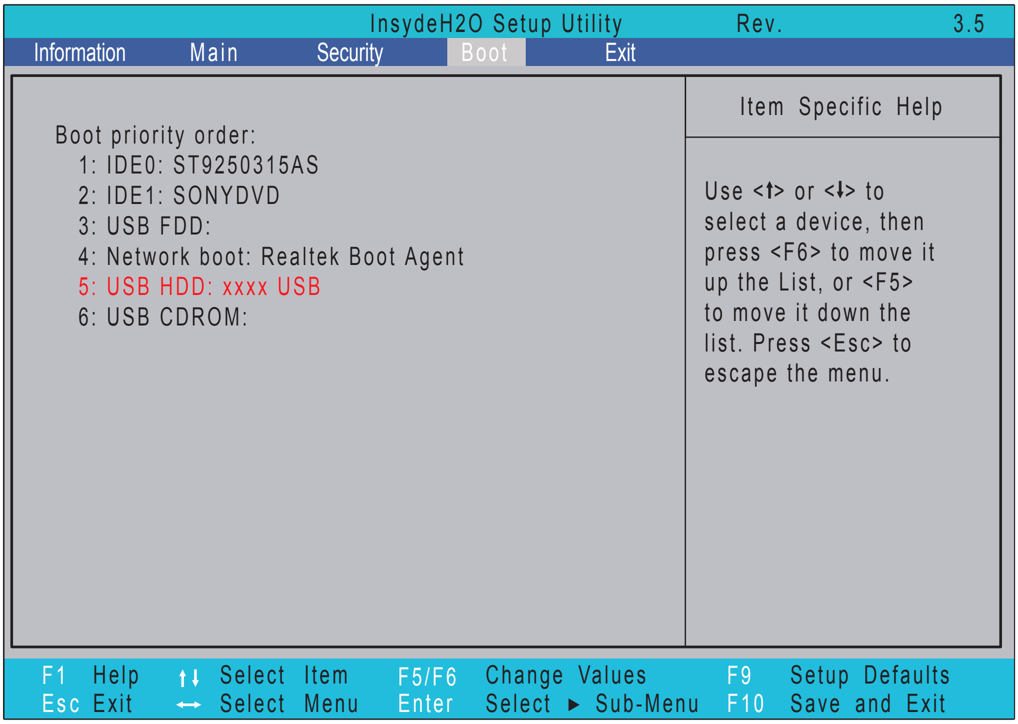
If the new password and confirm new password strings do not match, the screen will display the following message.



Boot

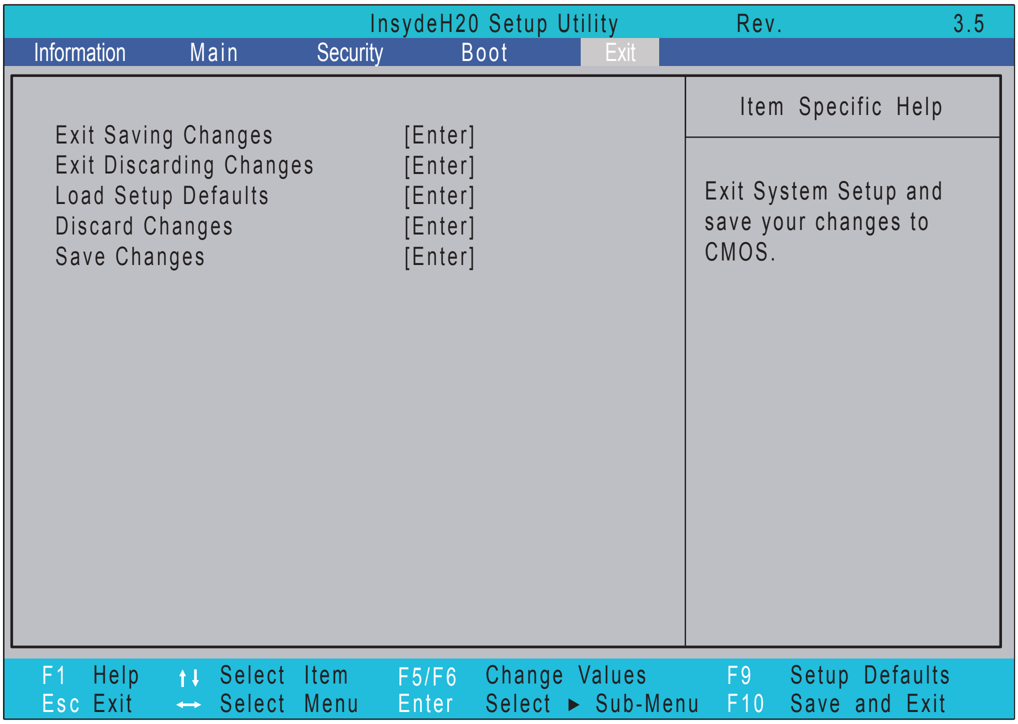
This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the USB diskette drives, the onboard hard disk drive and the DVD drive in the module bay.

Select Boot Devices to select specific devices to support boot.



Exit

The Exit screen allows you to save or discard any changes you made and quit the BIOS Utility.



The table below describes the parameters in this screen.

Parameter	Description
Exit Saving Changes	Exit System Setup and save your changes to CMOS.
Exit Discarding Changes	Exit utility without saving setup data to CMOS.
Load Setup Default	Load default values for all SETUP item.
Discard Changes	Load previous values from CMOS for all SETUP items.
Save Changes	Save Setup Data to CMOS.

BIOS Flash Utilities

The BIOS flash memory update is required for the following conditions:

- New versions of system programs
- New features or options
- Restore a BIOS when it becomes corrupted.

Use the Phlash utility to update the system BIOS flash ROM.

NOTE: If you do not have a crisis recovery diskette at hand, then you should create a **Crisis Recovery Diskette** before you use the Phlash utility.

NOTE: Do not install memory-related drivers (XMS, EMS, DPMI) when you use the Phlash.

NOTE: Please use the AC adaptor power supply when you run the Phlash utility. If the battery pack does not contain enough power to finish BIOS flash, you may not boot the system because the BIOS is not completely loaded.

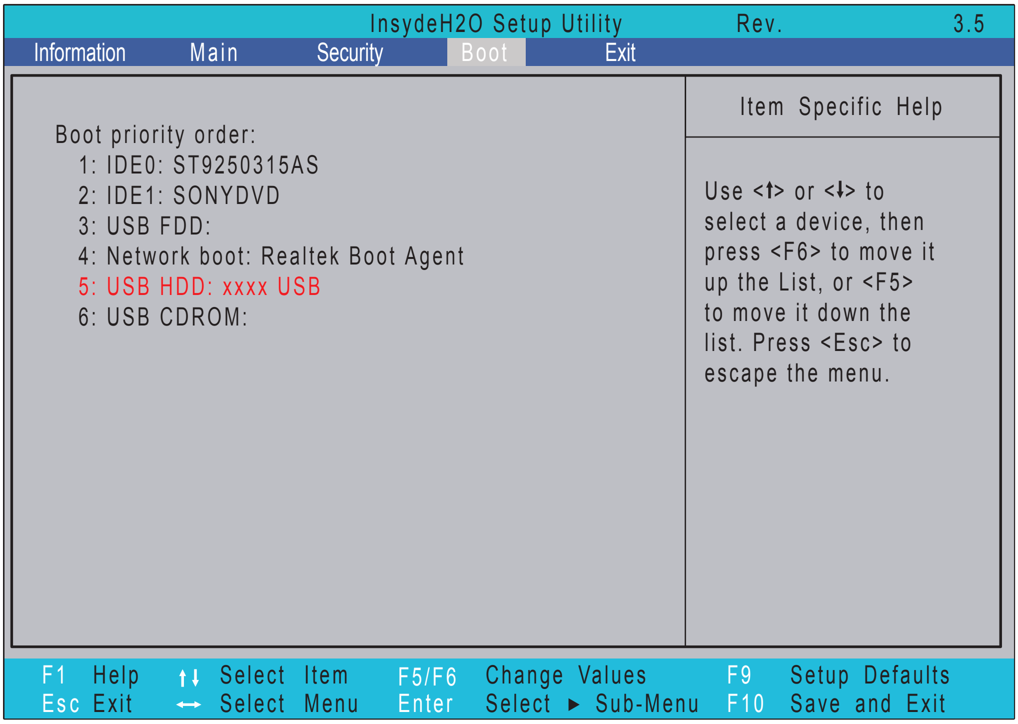
Fellow the steps below to run the Phlash.

1. Prepare a bootable diskette.
2. Copy the flash utilities to the bootable diskette.
3. Then boot the system from the bootable diskette. The flash utility has auto-execution function.

DOS Flash Utility

Perform the following steps to use the DOS Flash Utility:

1. Press F2 during boot to enter the Setup Menu.
2. Select **Boot Menu** to modify the boot priority order, for example, if using USB HDD to Update BIOS, move USB HDD to position 1.



3. Execute the **FLASH.BAT** batch file to update BIOS in DOS mode.

The flash process begins as shown.



4. In flash BIOS, the message **Please do not remove AC Power Source** displays.

C:\NDWG0\ndwg005a\ndwg005
C:\NDWG0\ndwg005a\flashit ndwg005.fd /b /fe /dc
Please do not remove the AC power!
C:\NDWG0\ndwg005a\

Plug in the AC power to continue.

5. Flash is complete when the message **Flash programming complete** displays.

WinFlash Utility

Perform the following steps to use the WinFlash Utility:

1. Double-click the WinFlash executable. Confirm your choice.



2. Click **OK** to begin the update. WinFlash closes all applications and shuts down the system.

NOTE: Place only one ***.wph** file with flash32.exe in the same folder when executing this procedure.



Remove HDD/BIOS Password Utilities

This section provides you with details about removing HDD/BIOS password:

Remove HDD Password:

If you key in the wrong HDD password three times, an error is generated.



To reset the HDD password, perform the following steps:

1. An error code is generated for unlocking the HDD. Note down this code.



2. Execute the **UnlockHD.EXE** file to create the unlock code in DOS Mode using the format ***UnlockHD [Encode code]*** with the code noted in the previous step, as follows:

   UnlockHD 76943488



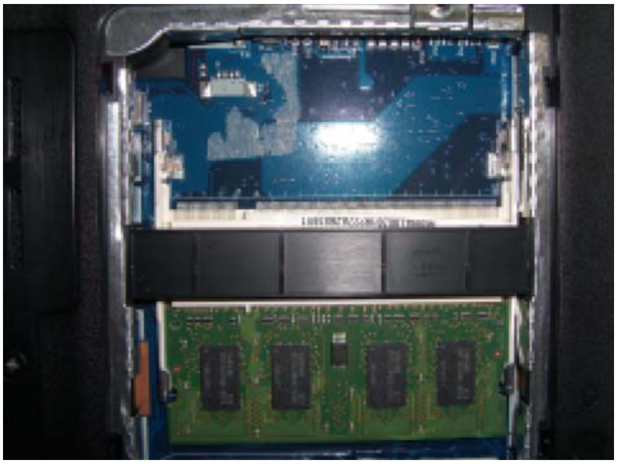
3. Select 2 to obtain the password. This password which can be used for unlocking the HDD.

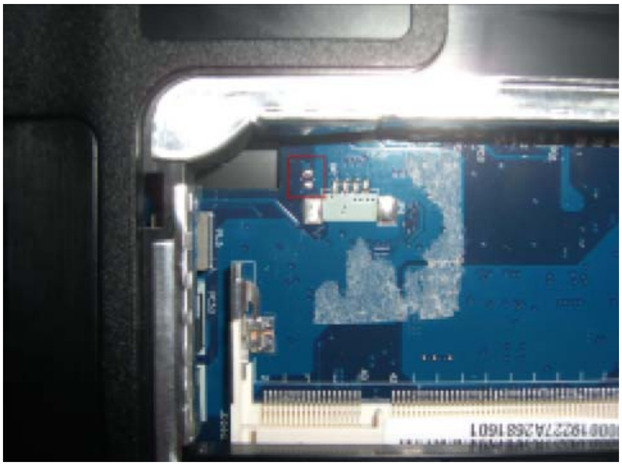
   Password :46548274

4. Shut down the computer by pressing down the Power button for 4 seconds.
5. Turn on the computer and key in the password to unlock the HDD.

Removing BIOS Passwords:

To clear the User or Supervisor passwords through hardware, open the RAM door and use a metal instrument to short the "RTC_RST" point.





Cleaning BIOS Passwords

To clean the User or Supervisor passwords using software utilites, perform the following steps:

1. From a DOS prompt, execute **clnpwd.exe**

```
D:\CLNPWD>CLNPWD.EXE
ACER Clean Password Utility V1.00
Press 1 or 2 to clean any password shown as below
             1.User Password
             2.Supervisor Password

Clean User Password Successfully!
```

2. Press **1** or **2** to clean the desired password shown on the screen.

The onscreen message determines whether the function is successful or not.

```
D:\CLNPWD>CLNPWD.EXE
ACER Clean Password Utility V1.00
Press 1 or 2 to clean any password shown as below
               1.User Password
               2.Supervisor Password

Clean User Password Successfully!
1
Clean User Password Successfully!
D:\CLNPWD>
```

```
D:\CLNPWD>CLNPWD.EXE
ACER Clean Password Utility V1.00
Press 1 or 2 to clean any password shown as below
               1.User Password
               2.Supervisor Password

Clean User Password Successfully!
2
Clean Supervisor Password Successfully!
Clean User Password Successfully!
D:\CLNPWD>
```

Using Boot Sequence Selector

The Boot Sequence Selector allows the boot order to be changed without accessing the BIOS. To use Boot Sequence Selector, perform the following steps:

1. Enter into DOS.
2. Execute **BS.exe** to display the usage screen.

```
d:\BOOTSEQ>bs

*** Boot Sequence Selecter Version 0.03 ***
Create by Rockwell Chuang 10/01/2005.

Usage:
       BS [ 1 | 2 | 3 | 4 ]

BS 1 : [ Floppy ] => [HardDisk] => [ CD-ROM ] => [  LAN   ]
BS 2 : [HardDisk] => [ CD-ROM ] => [  LAN   ] => [ Floppy ]
BS 3 : [ CD-ROM ] => [HardDisk] => [  LAN   ] => [ Floppy ]
BS 4 : [  LAN   ] => [ Floppy ] => [HardDisk] => [ CD-ROM ]

d:\BOOTSEQ>
```

3. Select the desired boot sequence by entering the corresponding sequence. For example, enter **BS2** to change the boot sequence to HDD | CD ROM | LAN | Floppy.

Using DMI Tools

The DMI (Desktop Management Interface) Tool copies BIOS information to EEPROM to be used in the DMI pool for hardware management.

When the BIOS displays **Verifying DMI pool data** it is checking that the table correlates with the hardware before sending to the operating system (Windows, etc.).

To update the DMI Pool, perform the following steps:

1. Boot into DOS.
2. Execute **dmitools**. The following messages report to screen to confirm completion:
   - dmitools /r ==> Read dmi string from bios
   - dmitools /wm xxxx ==> Write manufacturer name to eeprom (max. 16 characters)

- dmitools /wp xxxx ==> Write product name to eeprom (max. 16 characters)
- dmitools /ws xxxx ==> Write serial number to eeprom (max. 22 characters)
- dmitools /wu xxxx ==> Write uuid to eeprom
- dmitools /wa xxxx ==> Write asset tag to eeprom (max. 32 characters)

The following examples show the commands and the corresponding output information.

Read DMI Information from Memory

Input:

dmitools /r

Output:

Manufacturer (Type1, Offset04h): Acer

Product Name (Type1, Offset05h): Aspire xxxx

Serial Number (Type1, Offset07h): 01234567890123456789

UUID String (Type1, Offset08h): xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx

Asset Tag (Type3, Offset04h): Acet Asstag

Write Product Name to EEPROM

Input:

dmitools /wp Acer

Write Serial Number to EEPROM

Input:

dmitools /ws 01234567890123456789

4). Write UUID to EEPROM (Create UUID from Intel WFM20.pdf)

Input:

dmitools /wu

5). Write Asset Tag to EEPROM

Input:

dmitools /wa Acer Asstag

NOTE: When using any of the Write options, restart the system to make the new DMI data effective.

Using the LAN MAC EEPROM Utility

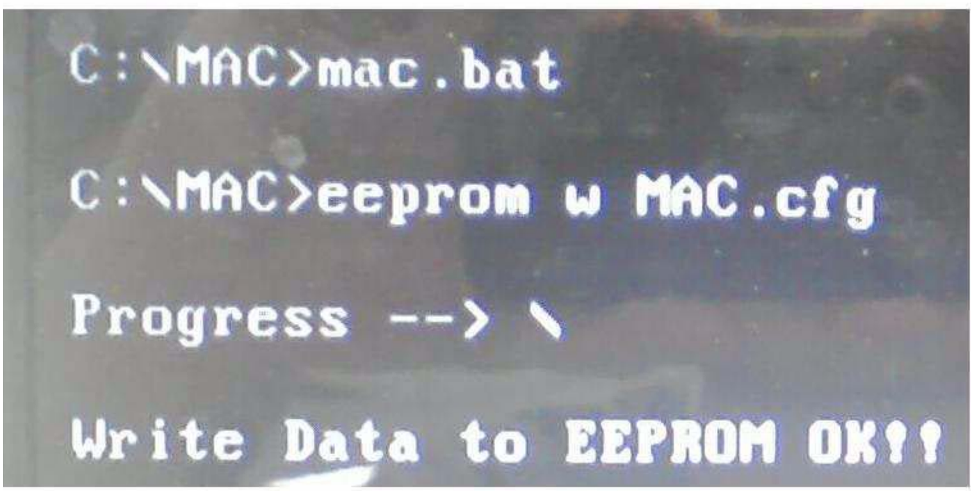
You can use the MAC.BAT utility to write the MAC.CFG file to the EEPROM under DOS mode.

1. Use a text editor (for example: Notepad) to open the MAC.CFG file. You can see the MAC.CFG contents as below:



WriteData = '001122334455'	MAC value
StartAddr=7A	MAC address
WriteLeng=6	MAC value length
KeepByte=0	don't care

2. In DOS mode, run the **MAC.BAT** file to write MAC values to eeprom.



Machine Disassembly and Replacement

IMPORTANT: The outside housing and color may vary from the mass produced model.

This chapter contains step-by-step procedures on how to disassemble the notebook computer for maintenance and troubleshooting.

Disassembly Requirements

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat screwdriver
- Philips screwdriver
- Plastic flat screwdriver
- Plastic tweezers

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components.

Pre-disassembly Instructions

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.



3. Place the system on a flat, stable surface.
4. Remove the battery pack.

Disassembly Process

IMPORTANT: The LCD Module cannot be disassembled outside of factory conditions. If any part of the LCD Module is faulty, such as the camera, antenna or LCD panel, the whole module must be replaced.

The disassembly process is divided into the following stages:

- External module disassembly
- Main unit disassembly
- LCD module disassembly

The flowcharts provided in the succeeding disassembly sections illustrate the entire disassembly sequence. Observe the order of the sequence to avoid damage to any of the hardware components. For example, if you want to remove the mainboard, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

Main Screw List

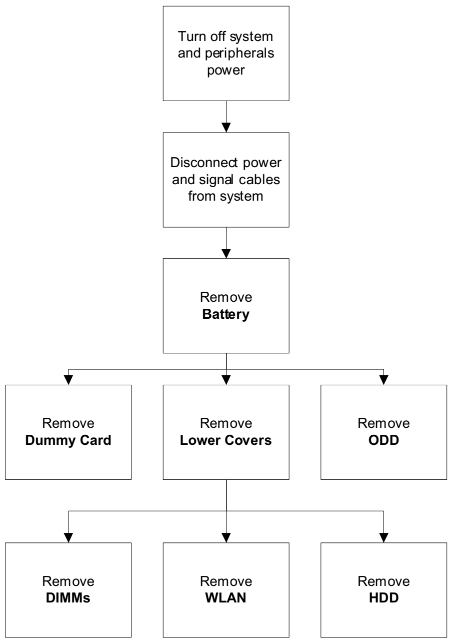
Screw	Quantity	Part Number
SCREW M2.5*4	1	86.N2802.001
SCREW M2.5*6	10	86.N2802.002
SCREW M2.5*8	30	86.N2802.003
SCREW M2*3	17	86.N2802.004
SCREW M3*3	4	86.N2802.005

External Module Disassembly Process

IMPORTANT: The outside housing and color may vary from the mass produced model.

External Modules Disassembly Flowchart

The flowchart below gives you a graphic representation of the external module disassembly sequence and instructs you on the components that need to be removed during servicing. For example, if you want to remove the keyboard, you must first remove the switch board.



Screw List

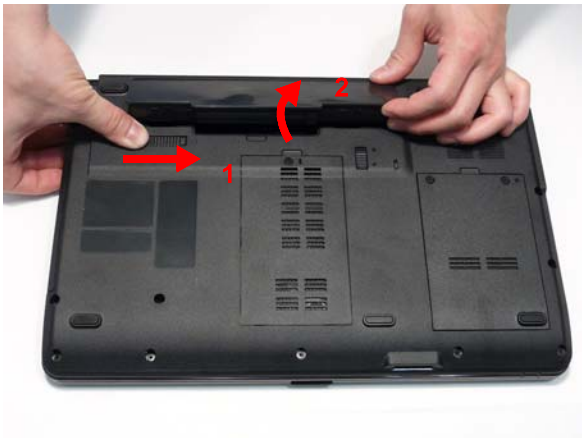
Step	Screw	Quantity	Part No.
Lower Covers	M2.5*8	3	86.N2802.003
ODD Module	M2.5*8	1	86.N2802.003
WLAN Module	M2*3	2	86.N2802.004
HDD Carrier	M3*3	4	86.N2802.005

Removing the Battery Pack

1. Turn computer over. Slide the battery lock in the direction shown.



2. Slide and hold the battery release latch to the release position (1), then lift out the battery pack from the main unit (2).



Removing the SD Dummy Card

1. Push the SD dummy card all the way in to eject it.



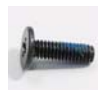
2. Pull it out from the slot.



Removing the Lower Covers

1. See “Removing the Battery Pack” on page 42.
2. Remove the three screws securing the Memory and HDD Covers.



Step	Size	Quantity	Screw Type
Lower Covers	M2.5*8	3	

3. Remove the HDD cover as shown.



4. Carefully open the Memory Cover.



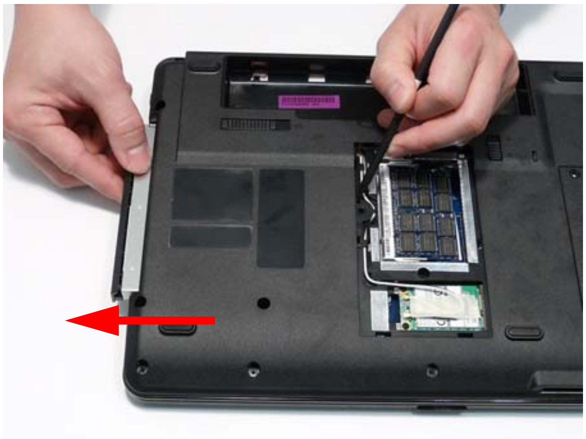
Removing the Optical Drive Module

1. See “Removing the Battery Pack” on page 42.
2. Remove the screw securing the ODD module.



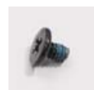
Step	Size	Quantity	Screw Type
ODD Module	M2.5*8	1	

3. Insert a suitable tool into the access slot in the battery bay as shown. Gently lever the ODD module out of the chassis.
4. Pull the optical drive module out from the chassis.



5. Remove the two screws securing the ODD bracket and remove the ODD bracket from the optical disk drive module.

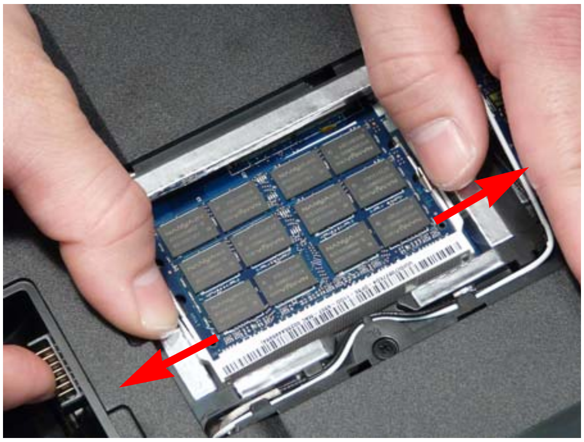
Step	Size	Quantity	Screw Type
ODD Bracket	M2*3	2	

6. Remove the ODD bezel by rotating the top edge downward and pulling it clear of the module.

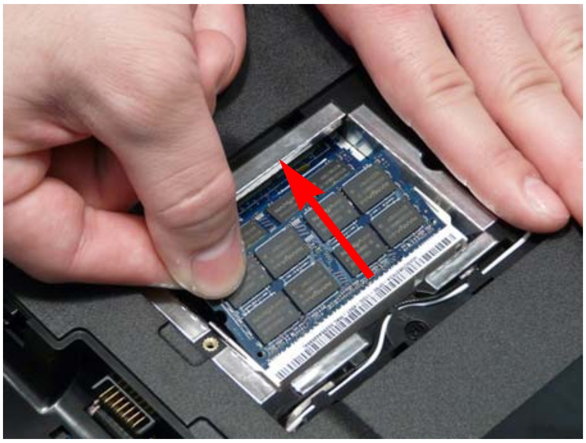


Removing the DIMM Modules

1. See “Removing the Lower Covers” on page 44.
2. Push out the release latches on both sides of the DIMM socket to release the DIMM module.



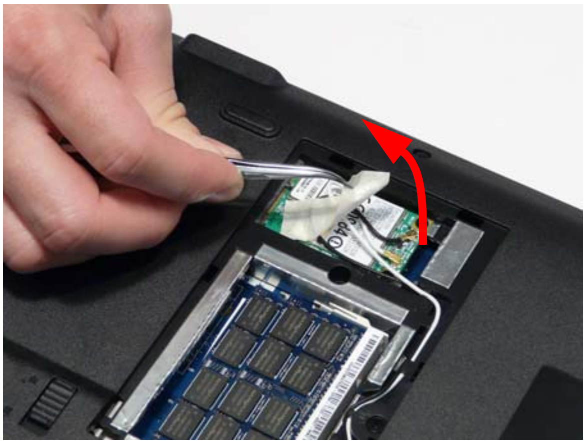
3. Remove the DIMM module.



4. Repeat steps for the second DIMM module if present.

Removing the WLAN Module

1. See "Removing the Lower Covers" on page 44.
2. Remove the adhesive tape securing the Antenna cables in place.



3. Disconnect the antenna cables from the WLAN Board.



NOTE: Cable placement is **Black** to the **MAIN** terminal (upper) and **White** to the **AUX** terminal (lower).

4. Move the antenna away and remove the two screws to release the WLAN Board.



Step	Size	Quantity	Screw Type
WLAN Module	M2*3	2	

5. Detach the WLAN Board from the WLAN socket.



NOTE: When reattaching the antennas, ensure the cables are tucked into the chassis to prevent damage.

Removing the Hard Disk Drive Module

1. See “Removing the Lower Covers” on page 44.
2. Using the pull-tab, slide the HDD Module in the direction of the arrow to disconnect the interface.

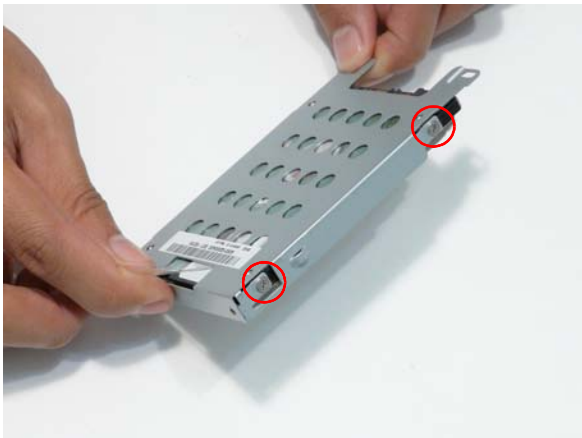


3. Lift the HDD Module clear of the HDD bay.



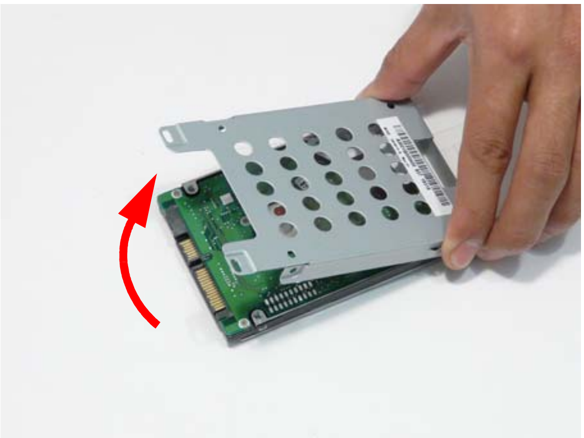
NOTE: To prevent damage to device, avoid pressing down on it or placing heavy objects on top of it.

4. Remove the four screws (two each side) securing the hard disk to the carrier.



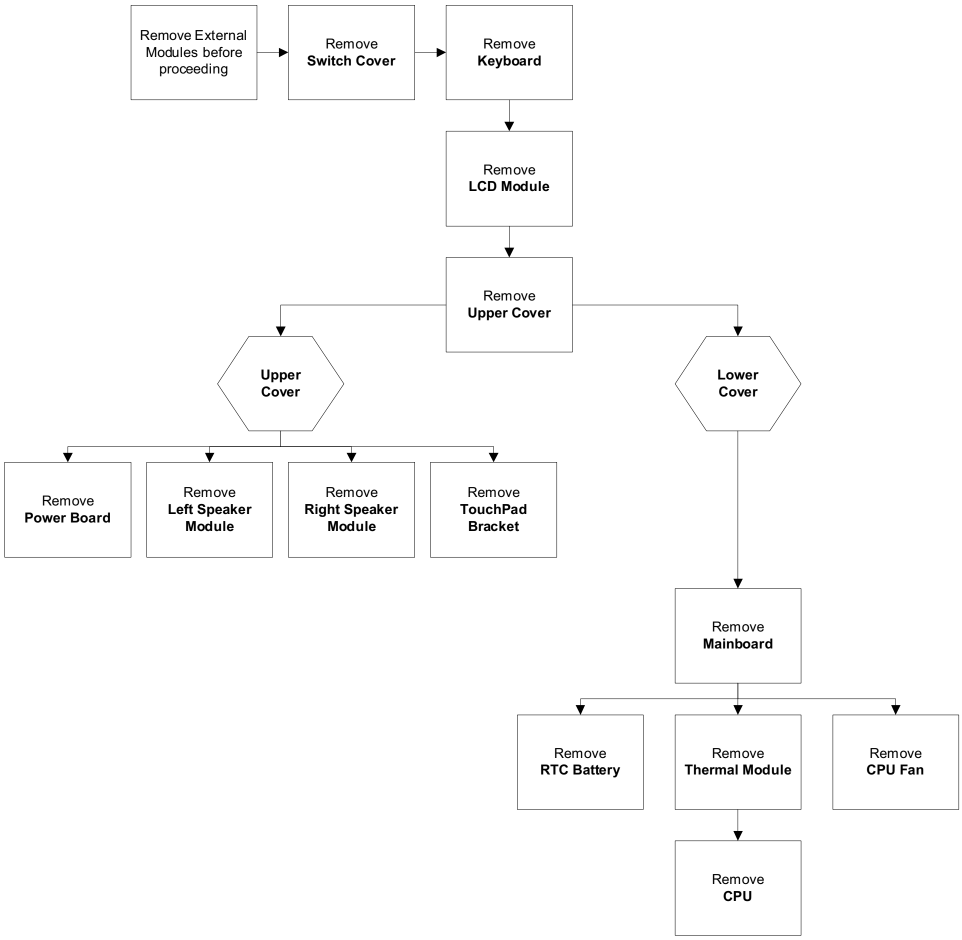
Step	Size	Quantity	Screw Type
HDD Carrier	M3*3	4	

5. Remove the HDD from the carrier.



Main Unit Disassembly Process

Main Unit Disassembly Flowchart



Screw List

Step	Screw	Quantity	Part No.
LCD Module	M2.5*8	2	86.N2802.003
LCD Module	M2.5*8	4	86.N2802.003
Upper Cover	M2.5*8	11	86.N2802.003
Upper Cover	M2.5*8	9	86.N2802.003
Power Board	M2*3	2	86.N2802.004
Left Speaker Module	M2*3	1	86.N2802.004
Right Speaker Module	M2*3	1	86.N2802.004
TouchPad Bracket	M2*3	2	86.N2802.004
Mainboard	M2.5*4	1	86.N2802.001
Thermal Module	M2.5*6	4	86.N2802.002
CPU Fan	M2*3	3	86.N2802.004

Removing the Switch Cover

CAUTION: Using metal tools to remove the Switch Cover may cause damage to the outer casing. The use of plastic tools or fingers is recommended to remove the Switch Cover.

1. See "Removing the Battery Pack" on page 42.
2. Turn the computer over. Press down the / and * keys on the right side of the Keyboard to expose the cutout. Insert a suitable plastic tool (or finger) and pry the Switch Cover upward, away from the Upper Cover.



3. Work along the Switch Cover toward the left hinge, gently prying up the cover as shown.



4. Lift the Switch Cover clear of the computer.



Removing the Keyboard

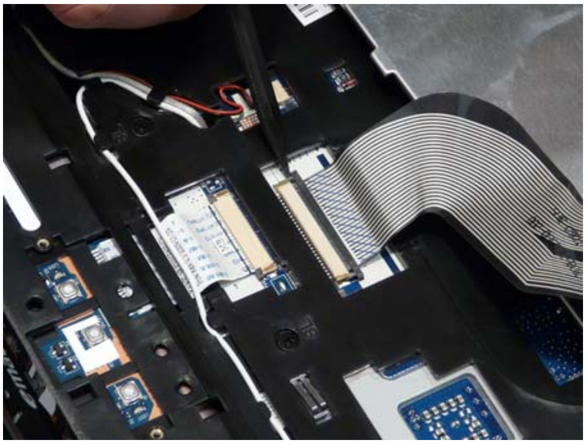
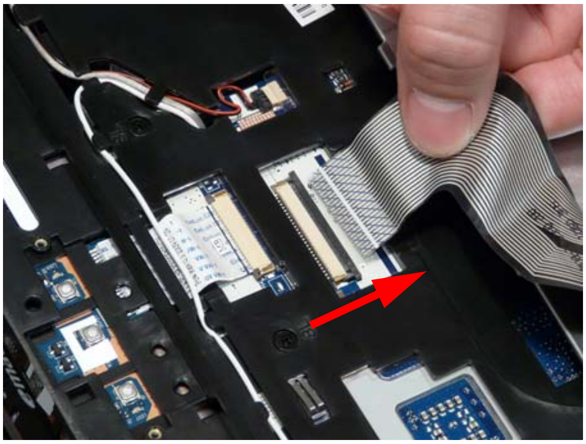
1. See “Removing the Switch Cover” on page 53.
2. Pry up the centre of the Keyboard and rotate it upward away from the Upper Cover.




3. Turn the keyboard over on to the TouchPad area to expose the FFC connector.



4. Open the locking latch and disconnect the FFC from the mainboard.

5. Lift the keyboard clear of the Upper Cover.

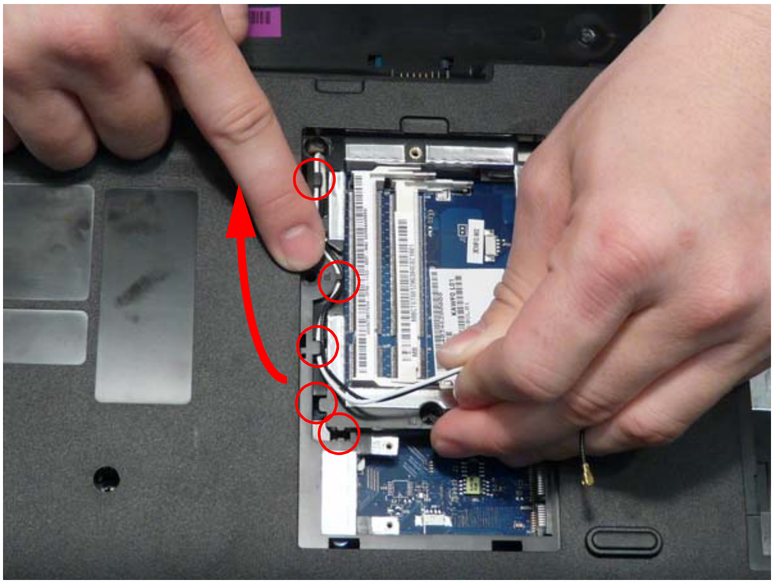
Removing the LCD Module

1. See “Removing the Keyboard” on page 54.
2. Turn the computer over. Remove the two securing screws from the bottom of the chassis.

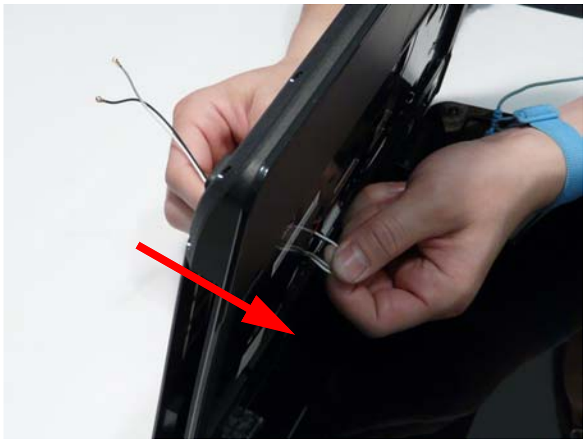


Step	Size	Quantity	Screw Type
LCD Module	M2.5*8	2	

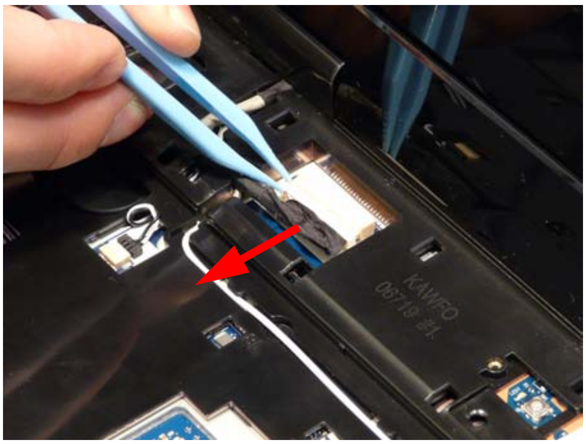
3. Remove the Antenna Cables from the cable channel as shown. Ensure that the cables are free from all cable clips.

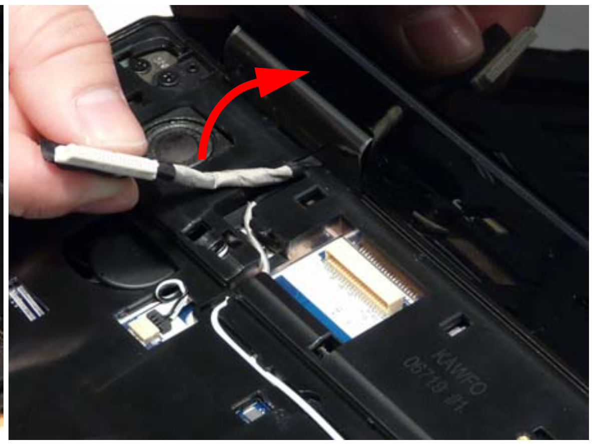


4. Stand the computer on the LCD Panel and pull the Antenna cables completely through the chassis.

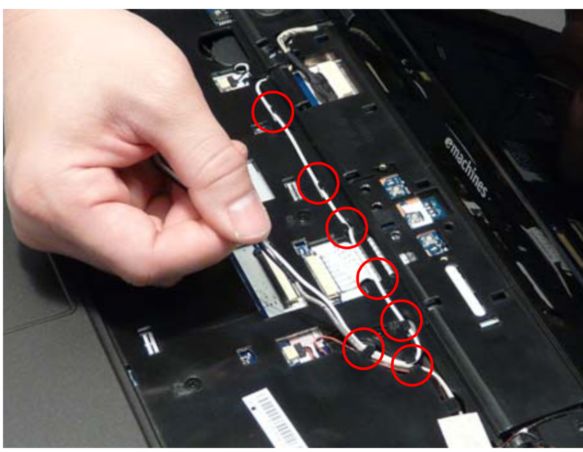


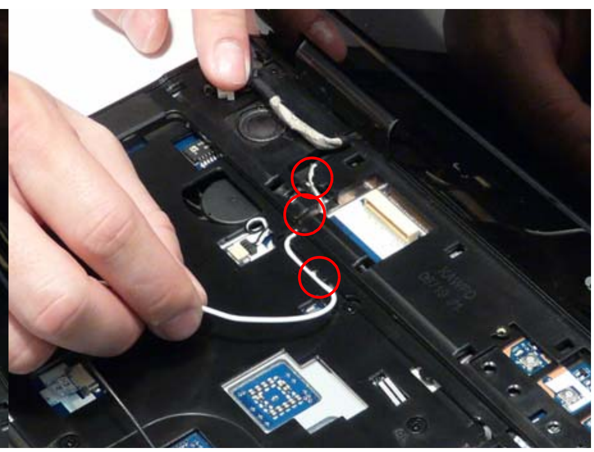
5. Disconnect the LCD cable from the Mainboard and remove the cable from the cable channel.



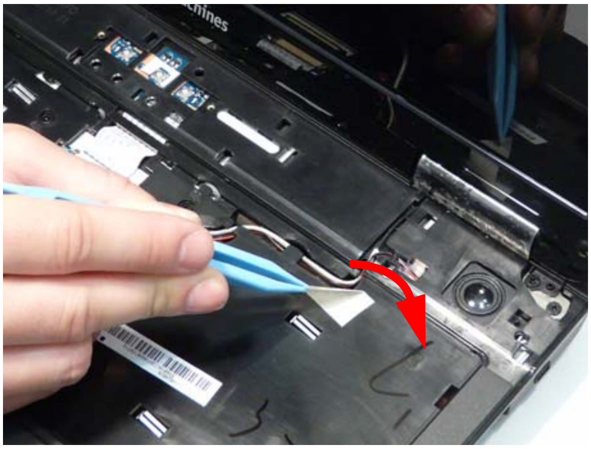


6. Remove the white Antenna cable from the cable channel. Ensure that the cable is completely free of the retaining clips all the way to the hinge well.

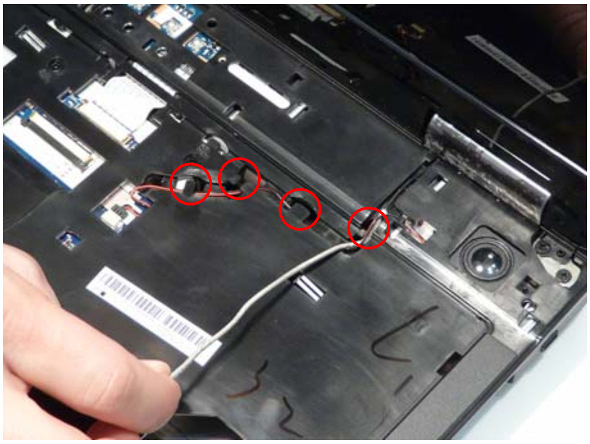




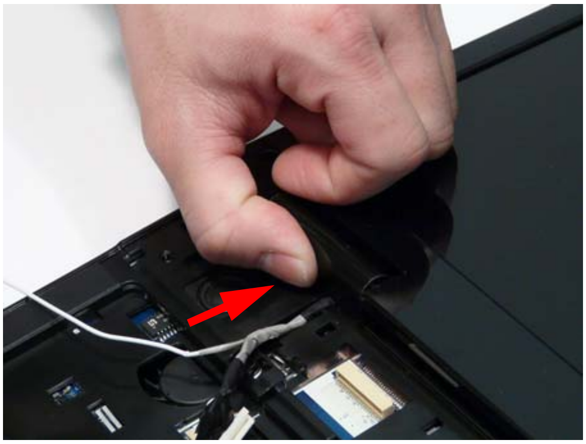
7. Remove the adhesive tape securing the Antenna cable to the Upper Cover.

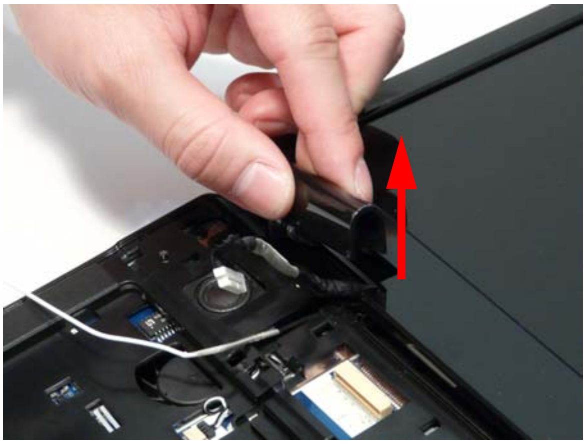


8. Remove the black Antenna cable from the cable channel as shown. Ensure that the cable is completely free of the retaining clips all the way to the hinge well.



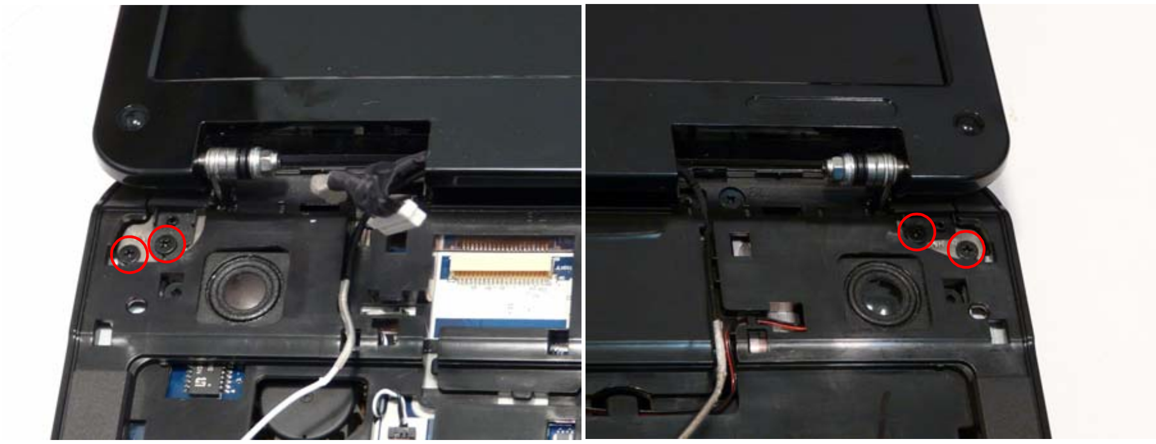
9. Open the LCD Panel to the full extent to expose the Hinge Covers.
10. Press the left side Hinge Cover inward, as shown, and lift to remove the cover from the chassis.

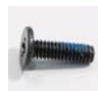




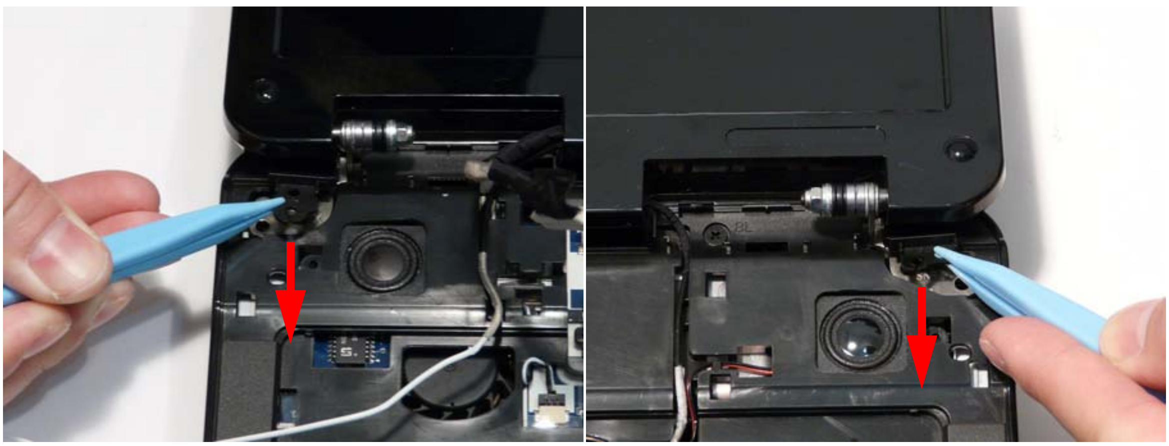
11. Repeat the process for the right side Hinge Cover.

12. Remove the four securing screws (two each side) from the LCD module.

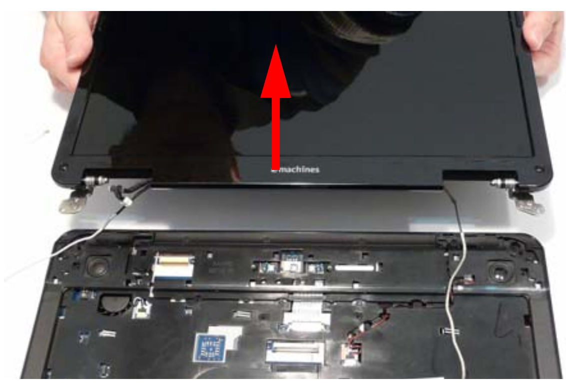


Step	Size	Quantity	Screw Type
LCD Module	M2.5*8	4	

13. Remove the left and right screw covers from on top of the hinges

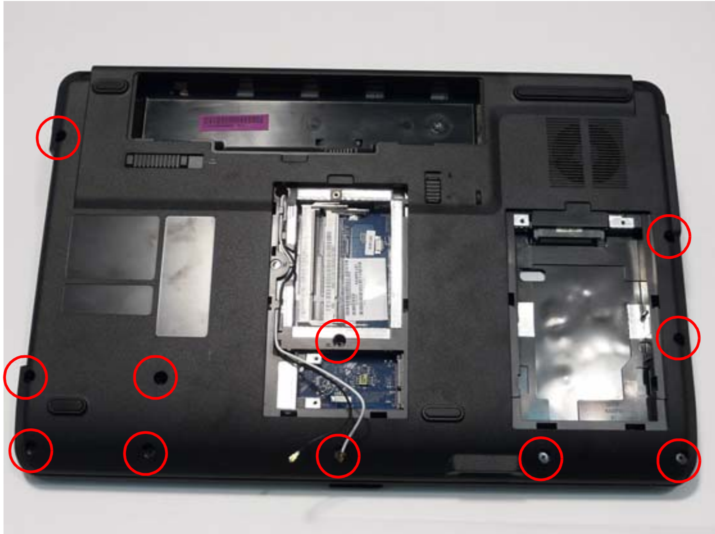


14. Lift the LCD Module clear of the Upper Cover.



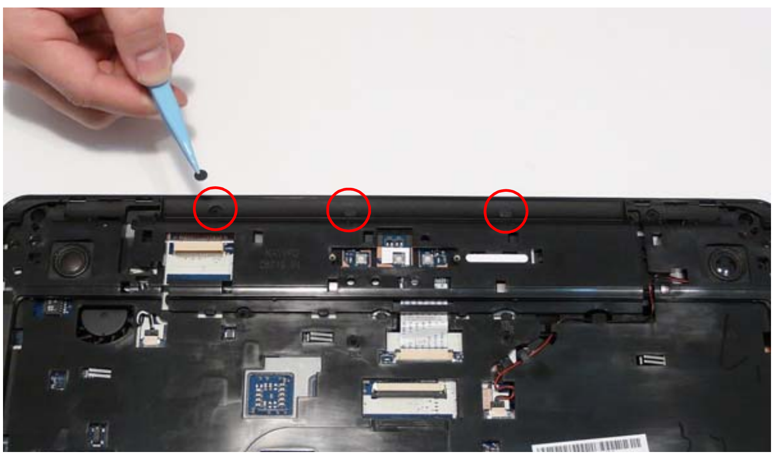
Removing the Upper Cover

1. See “Removing the LCD Module” on page 55.
2. Turn the computer over. Remove the eleven screws on the bottom panel.

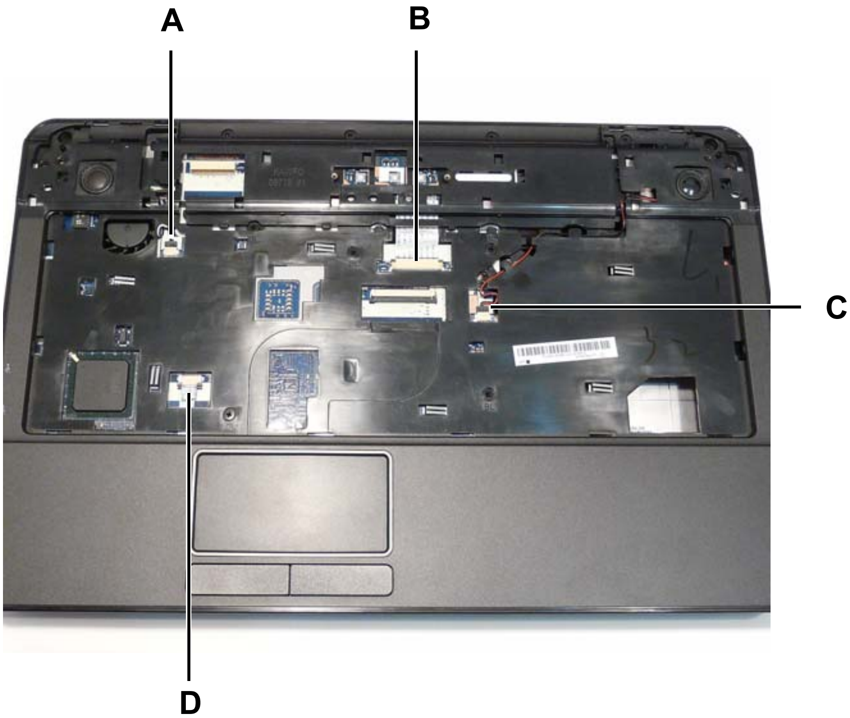


Step	Size	Quantity	Screw Type
Upper Cover	M2.5*8	11	

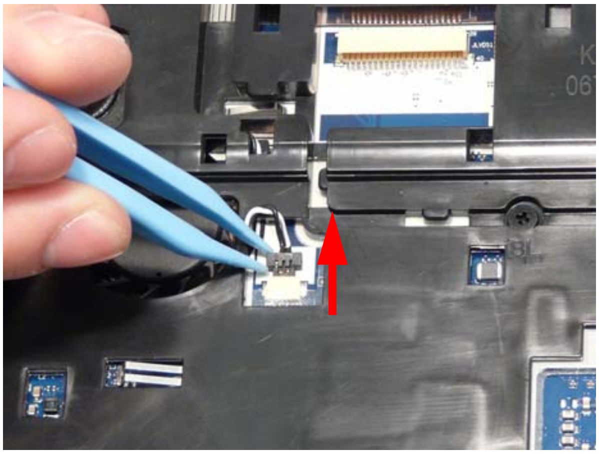
3. Turn the computer over. Remove the three screw caps at the rear of the Upper Cover as shown.



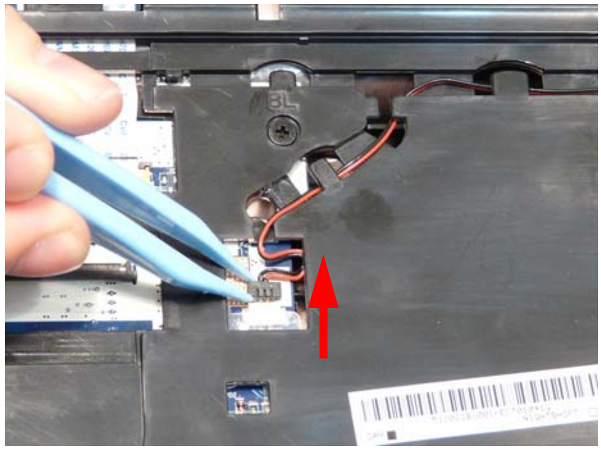
4. Disconnect the following four cables from the Mainboard.



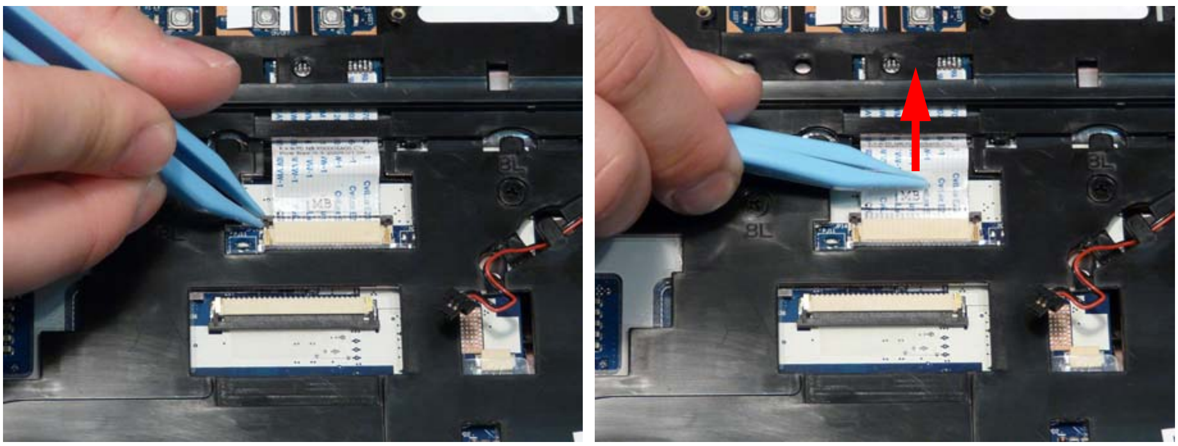
5. Disconnect **A** as shown.



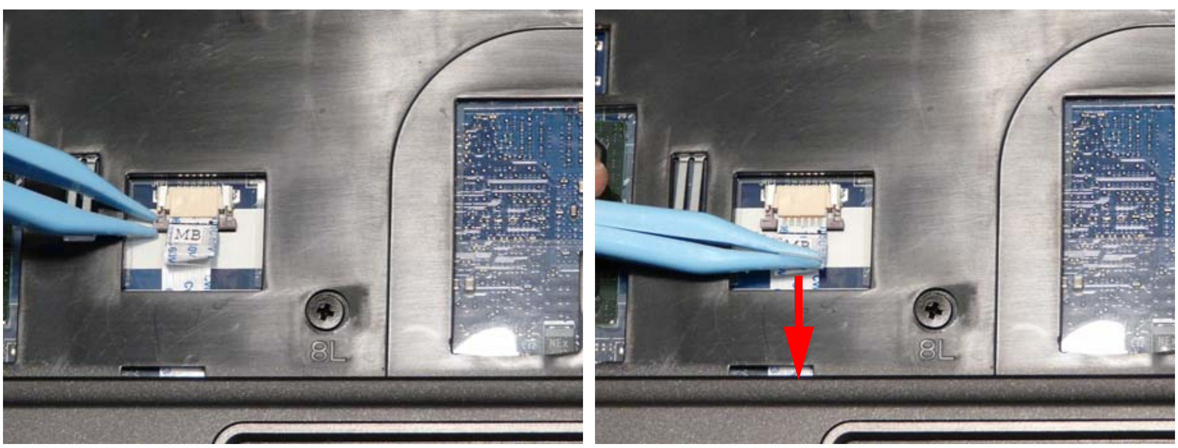
6. Disconnect **C** as shown.



7. Release the locking latch on **B** and remove the FFC cable as shown.



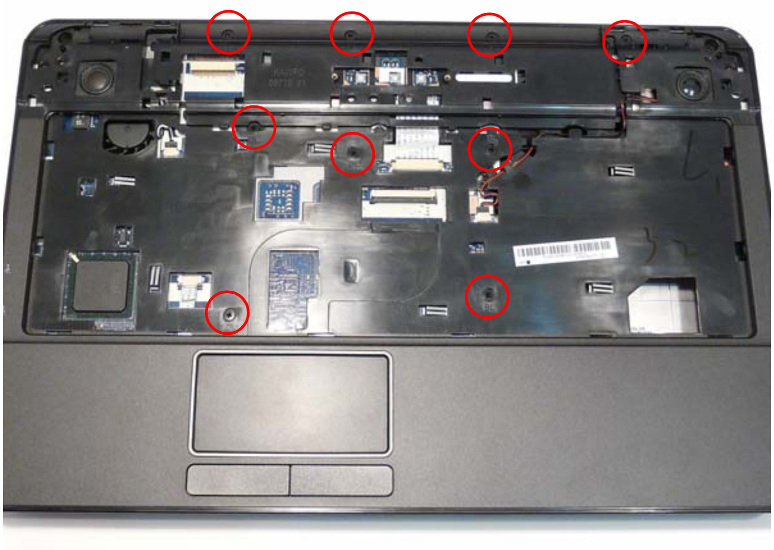
8. Release the locking latch on **D** and remove the FFC cable as shown.



NOTE: Avoid pulling on cables directly to prevent damage to the connectors.

NOTE: Use the pull-tabs on FFCs whenever available to prevent damage.

9. Remove the nine screws on the top panel.

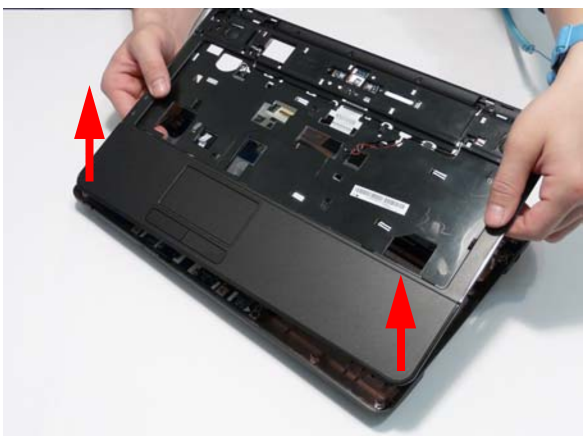


Step	Size	Quantity	Screw Type
Upper Cover	M2.5*8	9	

10. Starting at the rear left side of the cover, pry apart the Upper and Lower Covers as shown. Work along the back edge of the casing to the right as shown, then lift the Upper Cover clear of the Lower Cover.

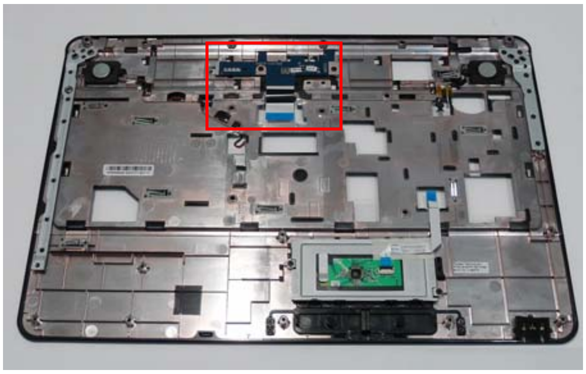




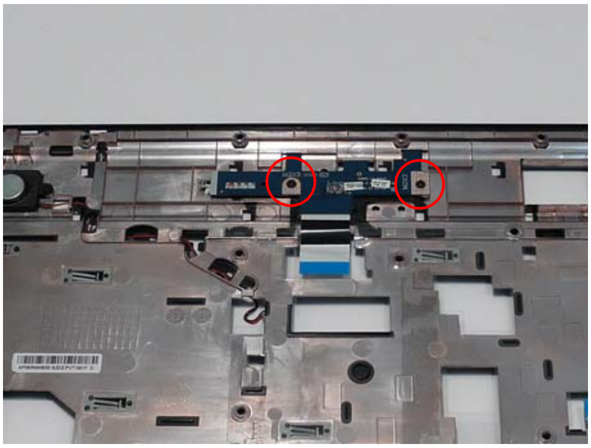


Removing the Power Board

1. See “Removing the Upper Cover” on page 59.
2. Locate the Power Board on the Upper Cover as shown.

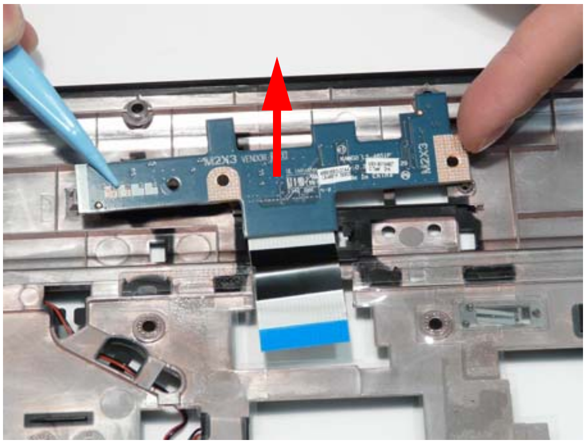


3. Remove the two screws securing the Power Board to the Upper Cover.



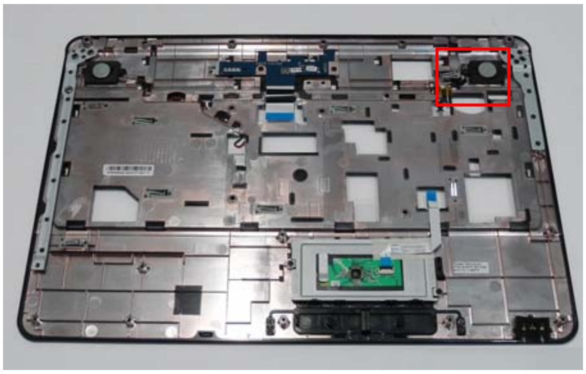
Step	Size	Quantity	Screw Type
Power Board	M2*3	2	

4. Lift the Power Board clear of the Upper Cover as shown.

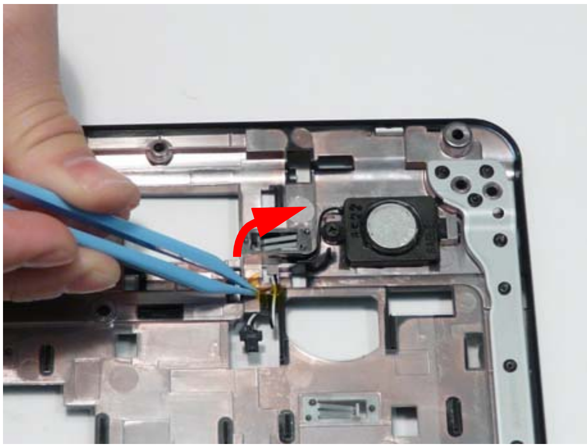


Removing the Left Speaker Module

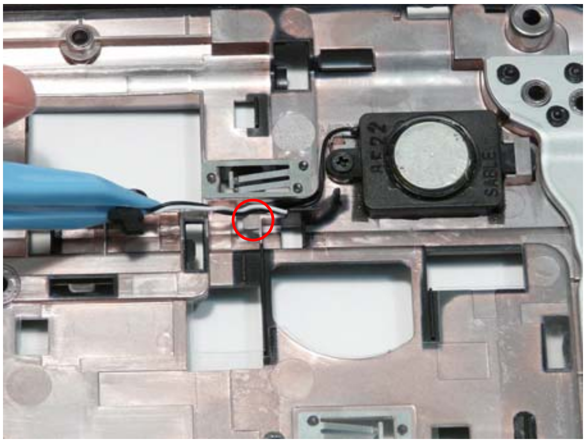
1. See “Removing the Upper Cover” on page 59.
2. Locate the Left Speaker Module on the Upper Cover as shown.



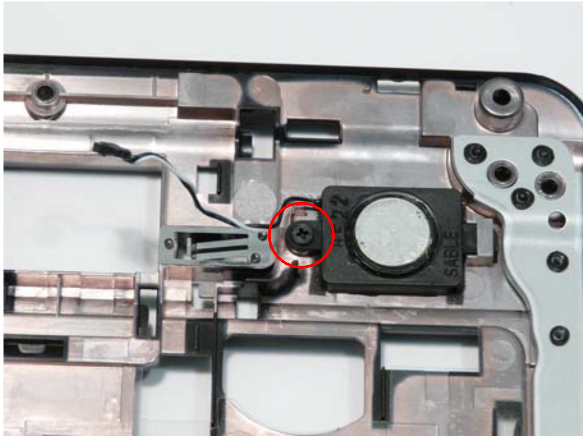
3. Remove the adhesive tape from the Speaker cable.

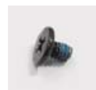


4. Remove the Speaker cable from the cable channel. Ensure that the cable is free from all cable clips.

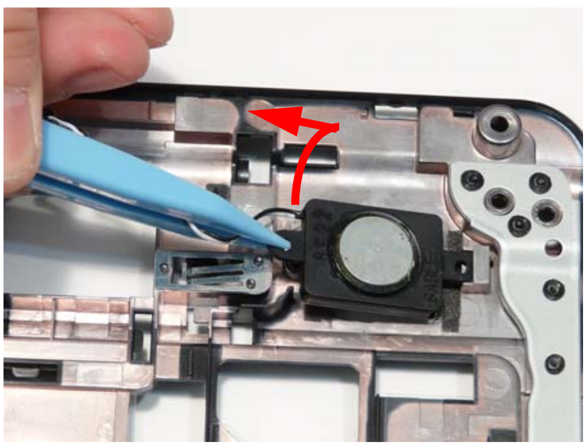


5. Remove the single securing screw from the Left Speaker Module.



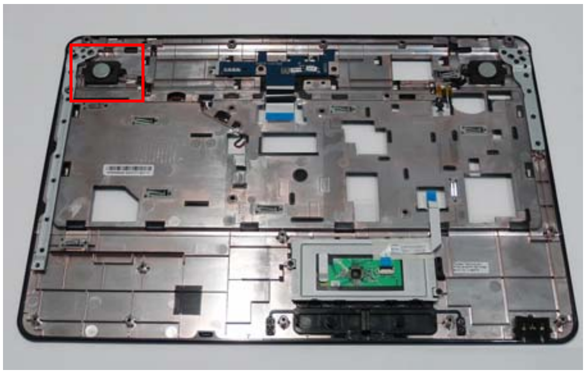
Step	Size	Quantity	Screw Type
Left Speaker Module	M2*3	1	

6. Lift the Speaker clear of the Upper Cover, left side first as shown.

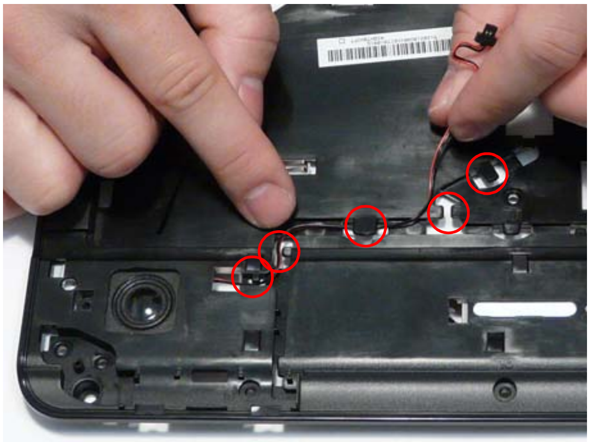


Removing the Right Speaker Module

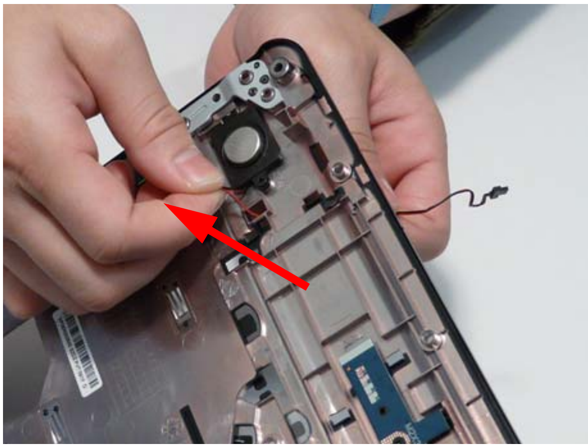
1. See “Removing the Upper Cover” on page 59.
2. Locate the Right Speaker Module on the Upper Cover as shown.



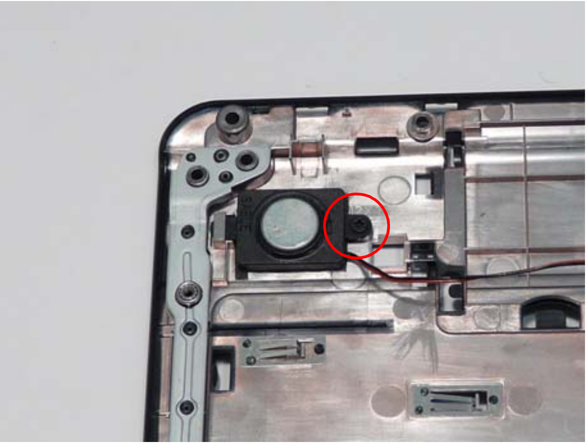
3. Turn the Upper Cover over and remove the Right Speaker Module cable from the cable channel. Ensure that the cable is free from all cable clips.



4. Turn the Upper Cover over and pass the cable through the cover as shown.

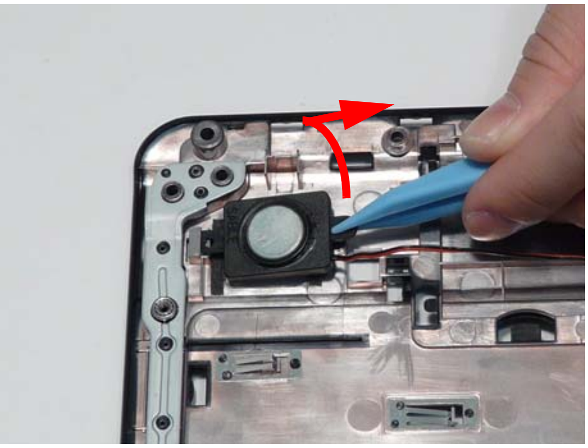


5. Remove the single securing screw from the Right Speaker Module.



Step	Size	Quantity	Screw Type
Right Speaker Module	M2*3	1	

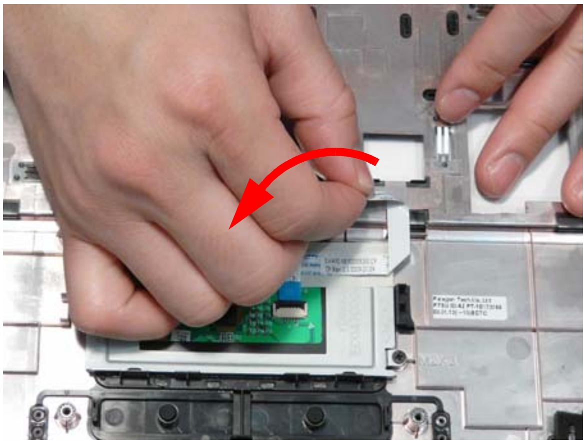
6. Lift the Speaker clear of the Upper Cover, right side first as shown.



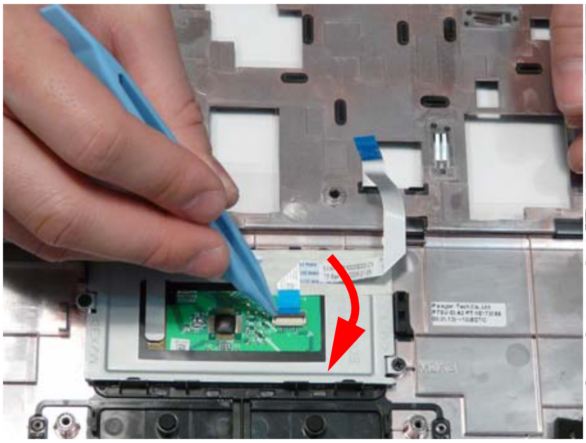
Removing the TouchPad Bracket

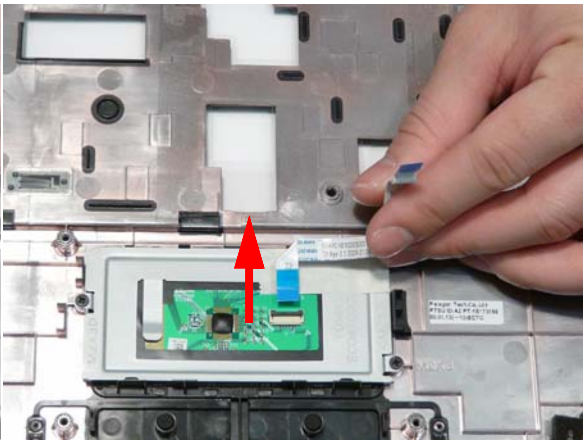
IMPORTANT: The TouchPad Board cannot be removed individually. To replace the TouchPad Board, replace the entire Upper Cover.

1. See “Removing the Upper Cover” on page 59.
2. Lift the FFC to detach the adhesive securing the cable to the Upper Cover.

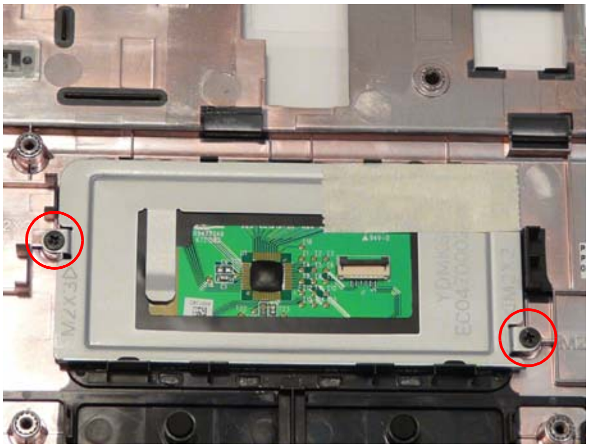


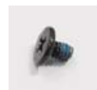
3. Release the FFC locking latch and disconnect the TouchPad FFC from the cover.



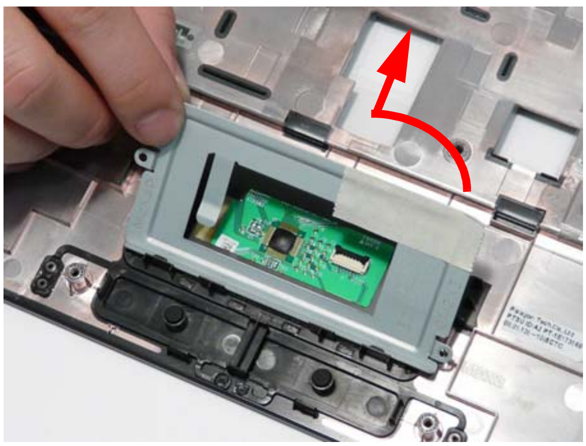


4. Remove the two screws from TouchPad bracket.



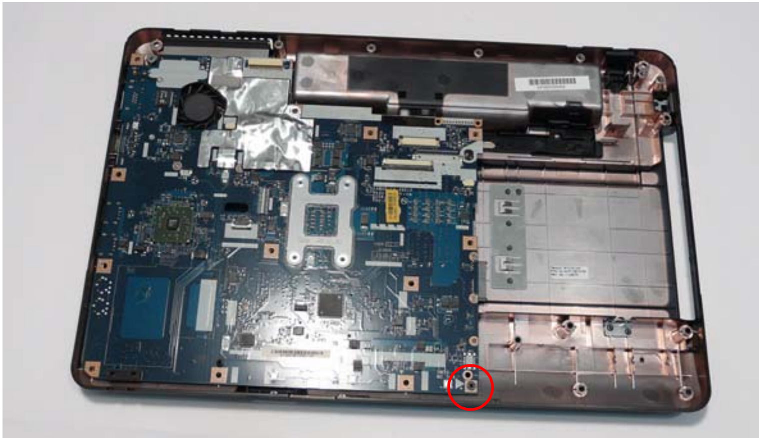
Step	Size	Quantity	Screw Type
TouchPad Bracket	M2*3	2	

5. Lift the rear edge of the TouchPad bracket first to clear the securing clips and remove it as shown.



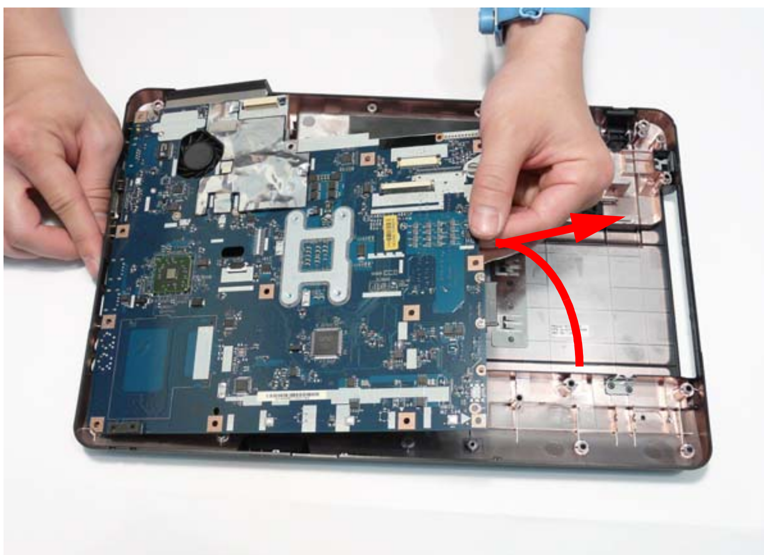
Removing the Mainboard

1. See “Removing the Upper Cover” on page 59.
2. Remove the single securing screw from the Mainboard.



Step	Size	Quantity	Screw Type
Mainboard	M2.5*4	1	

3. Lift the mainboard from the chassis, right edge first, and place it on a clean, dust-free surface.

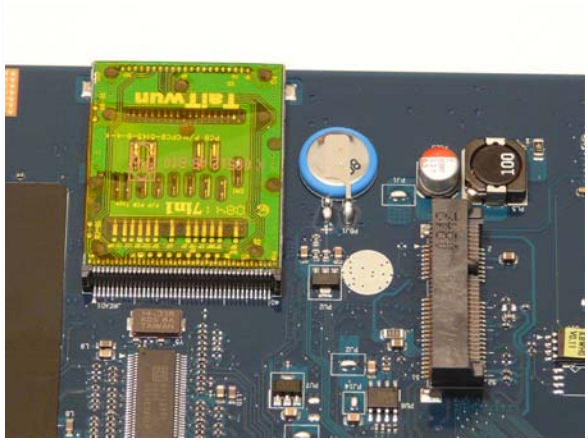


Removing the RTC Battery

IMPORTANT: Follow local regulations for disposal of all batteries.

The RTC Battery is soldered to the Mainboard. To replace the battery, solder the new battery to the connections shown.





Removing the Thermal Module

1. See "Removing the Lower Covers" on page 44.
2. Turn the Mainboard over to access the Thermal Module.

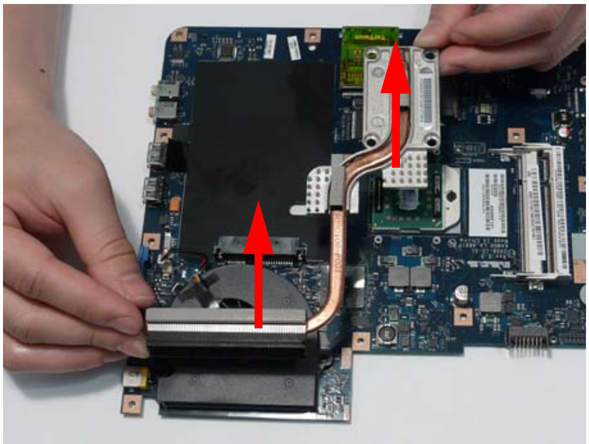


3. Remove the four securing screws (in reverse numerical order from screw 4 to screw 1) from the Thermal Module.



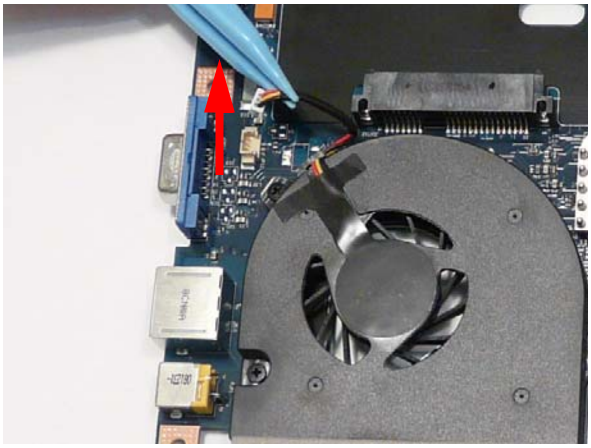
Step	Size	Quantity	Screw Type
Thermal Module	M2.5*6	4	

4. Using both hands, lift the Thermal Module clear of the Mainboard.

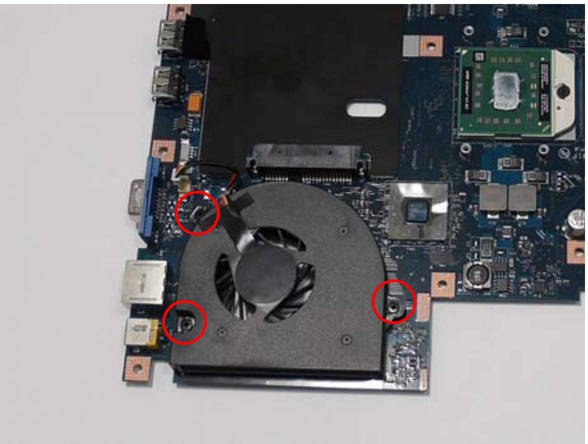


Removing the CPU Fan

1. See “Removing the Thermal Module” on page 72.
2. Disconnect the Fan cable from the Mainboard as shown.

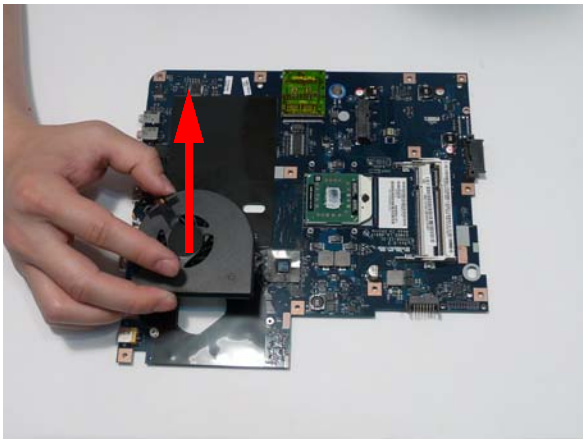


3. Remove the three securing screws from the Fan Module.



Step	Size	Quantity	Screw Type
CPU Fan	M2*3	3	

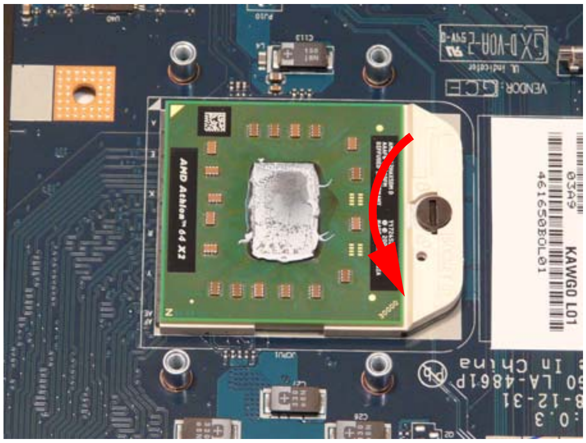
4. Lift the CPU Fan clear of the Mainboard as shown.



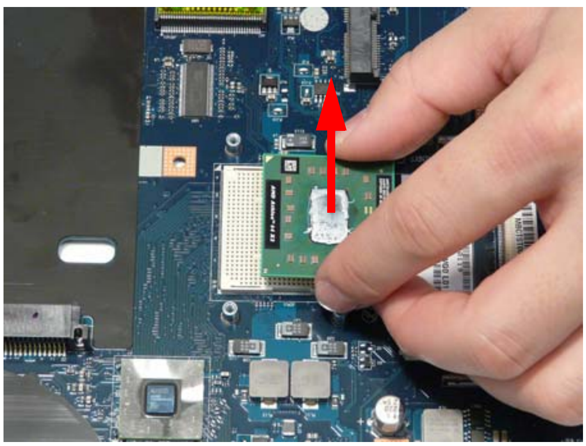
Removing the CPU

IMPORTANT: The pins on the underside of the CPU are very delicate. If they are damaged, the CPU may malfunction. Place the CPU on a clean, dry surface when it is not installed.

1. See “Removing the Thermal Module” on page 72.
2. Using a flat-bladed screw driver, rotate the CPU locking screw 180° counter-clockwise as shown.

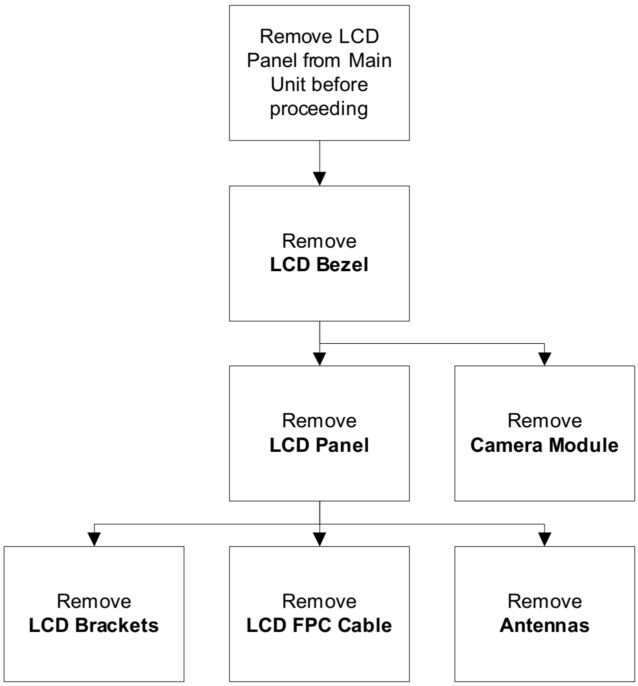


3. Lift the CPU clear of the socket as shown.



LCD Module Disassembly Process

LCD Module Disassembly Flowchart



Screw List

Step	Screw	Quantity	Part No.
LCD Bezel	M2.5*6	4	86.N2802.002
LCD Panel	M2.5*6	2	86.N2802.002
LCD Brackets	M2*3	6	86.N2802.004

Removing the LCD Bezel

1. See “Removing the LCD Module” on page 55.
2. Remove the two upper and two lower bezel screw caps and screws.



Step	Size	Quantity	Screw Type
LCD Bezel	M2.5*6	4	

3. Starting from the bottom edge of the bezel, pry the bezel upwards and away from the panel. Work along the right side toward the top of the bezel, prying the covers apart. Continue along the top edge and down the left side to remove the bezel.

   NOTE: If necessary, use a pry to lift up the outside edges of the bezel.



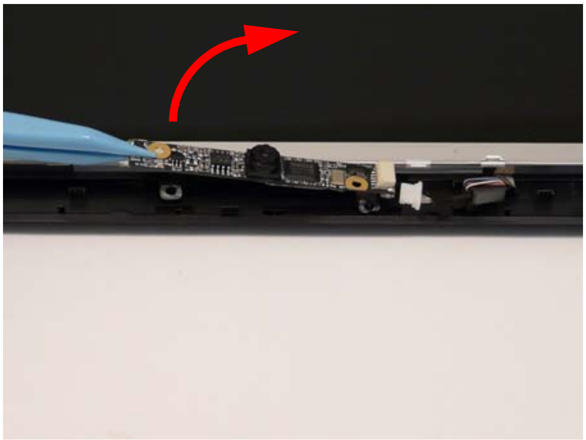



Removing the Camera Module

1. See “Removing the LCD Bezel” on page 78.
2. Locate the Camera Module at the top of the LCD Module and disconnect the camera cable.



3. Remove the Camera from the module.



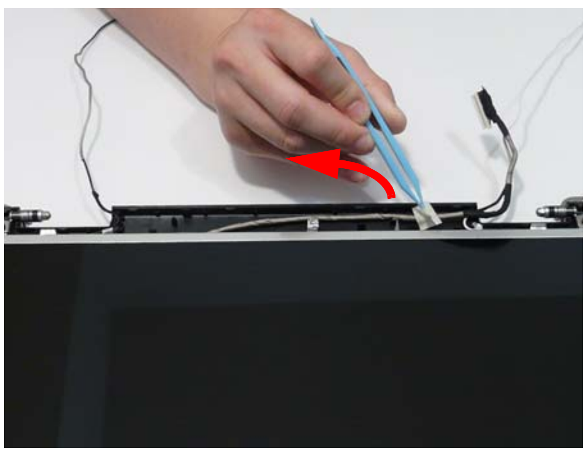
Removing the LCD Panel

1. See “Removing the Camera Module” on page 79.
2. Remove the two securing screws from the LCD Panel.

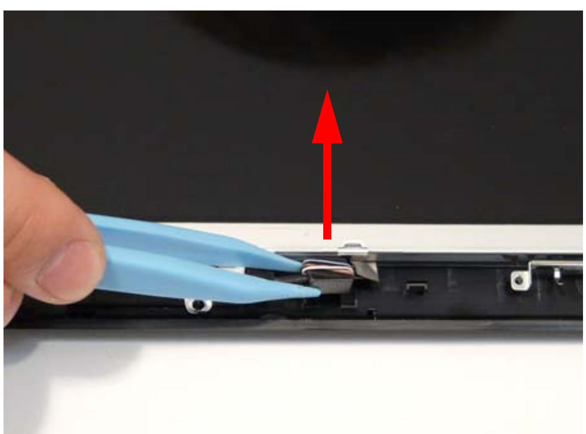


Step	Size	Quantity	Screw Type
LCD Panel	M2.5*6	2	

3. Remove the adhesive strip holding the cables in place.



4. Remove the Camera cable cluster from the LCD Module as shown.

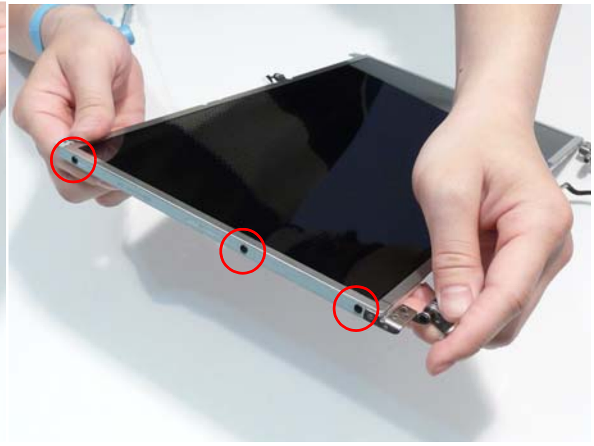


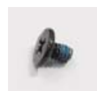
5. Lift the LCD Panel clear of the module.



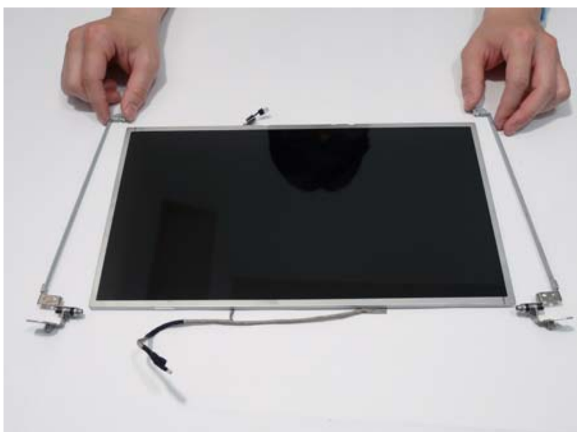
Removing the LCD Brackets and FPC Cable

1. See “Removing the LCD Panel” on page 80.
2. Remove the six securing screws (three on each side) from the LCD Panel brackets.

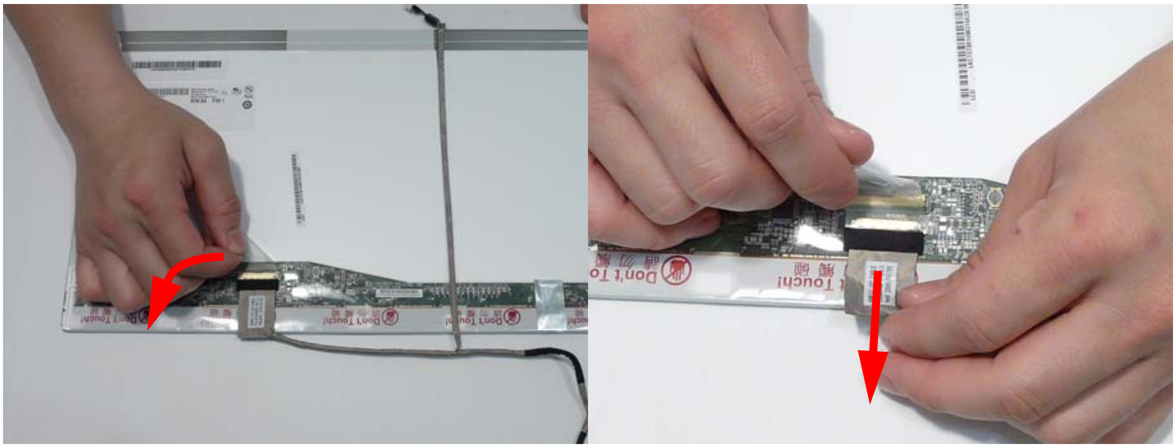



Step	Size	Quantity	Screw Type
LCD Brackets	M2*3	6	

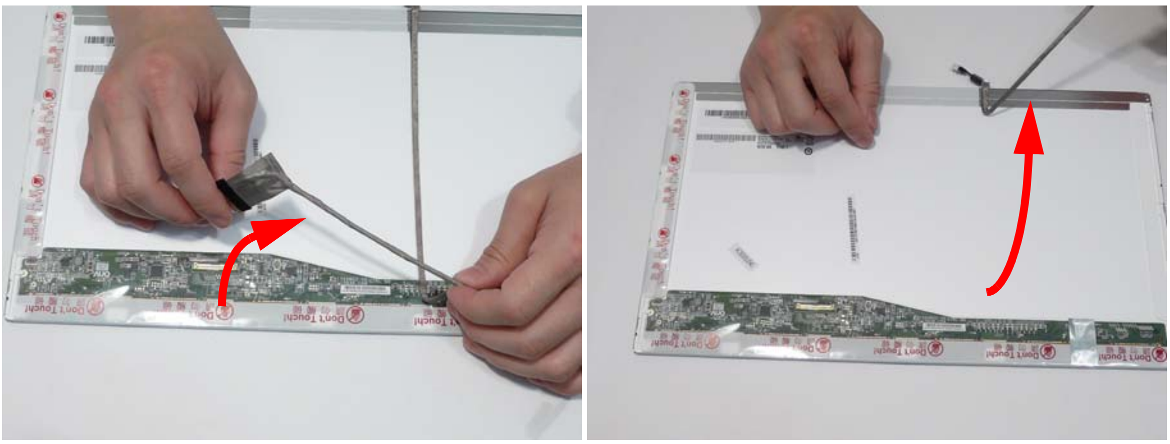
3. Remove the LCD brackets by pulling away from the LCD Panel.



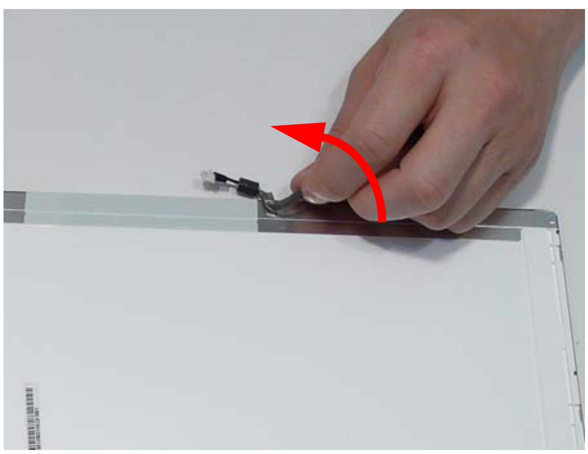
4. Turn the LCD panel over to expose the rear. Lift the adhesive protector and disconnect the cable from the LCD Panel.



5. Lift the cable as shown to disengage the adhesive strip securing it in place.

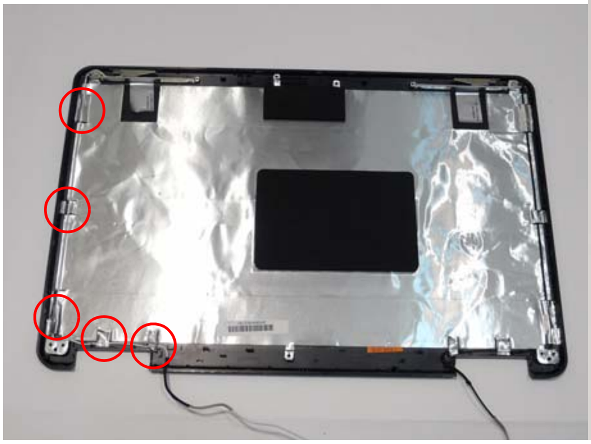


6. Lift the FPC cable to disengage the remaining adhesive and remove the cable from the panel.

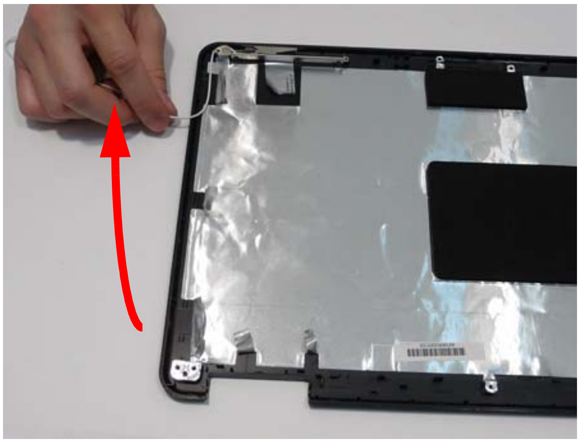


Removing the Antennas

1. See “Removing the LCD Panel” on page 80.
2. Remove the adhesive strips holding the left antenna cable in place. Ensure the cable is free from obstructions.



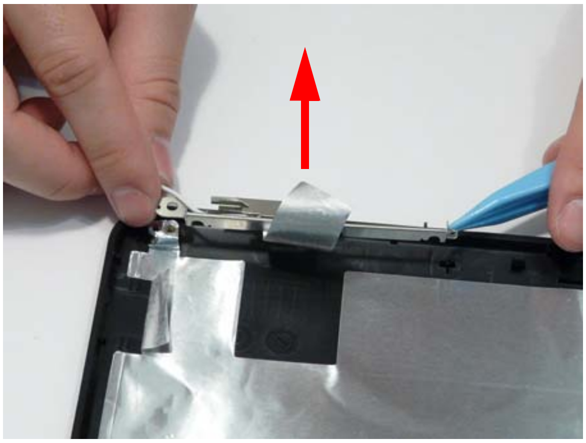

3. Remove the cable from the cable channel. Ensure that the cable is free from all cable clips and adhesive strips.

4. Remove the adhesive tape securing the left Antenna to the LCD Module.



5. Lift the left Antenna clear of the cover.

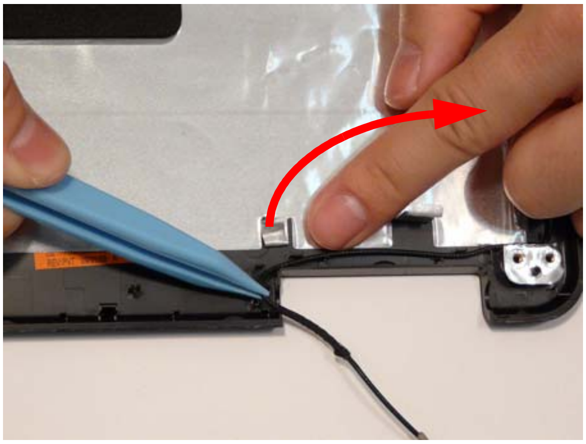


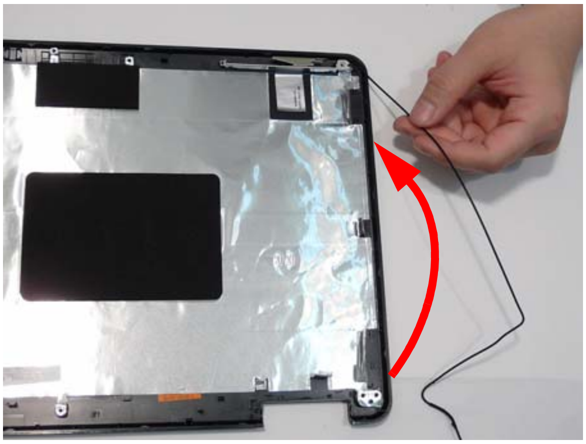
6. Remove the adhesive strips holding the right antenna cable in place. Ensure the cable is free from obstructions.



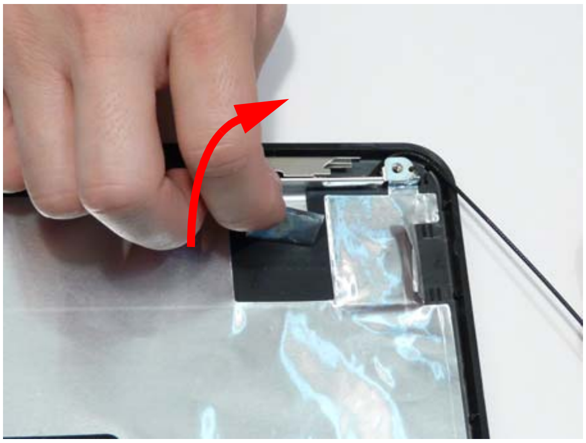


7. Remove the cable from the cable channel. Ensure that the cable is free from all cable clips and adhesive strips.

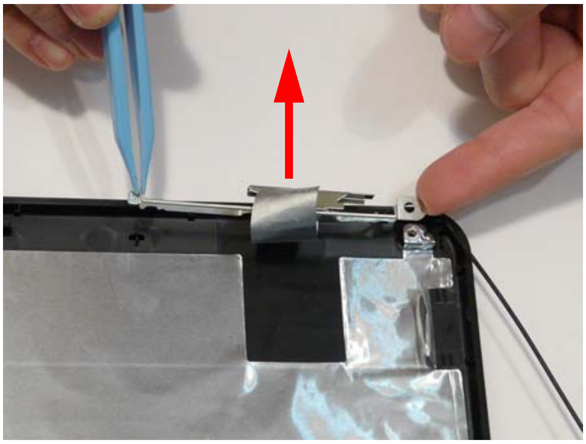




8. Remove the adhesive tape securing the right Antenna to the LCD Module.



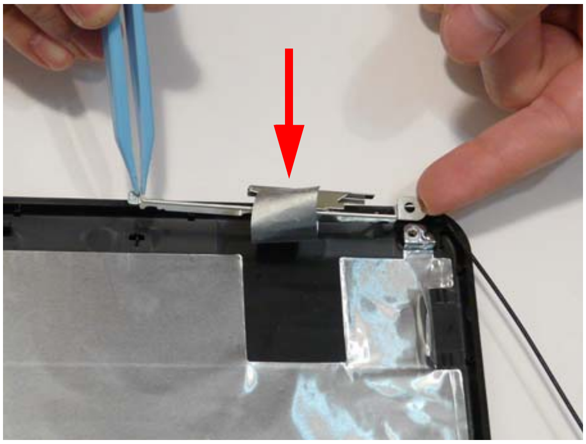
9. Lift the right Antenna clear of the cover.

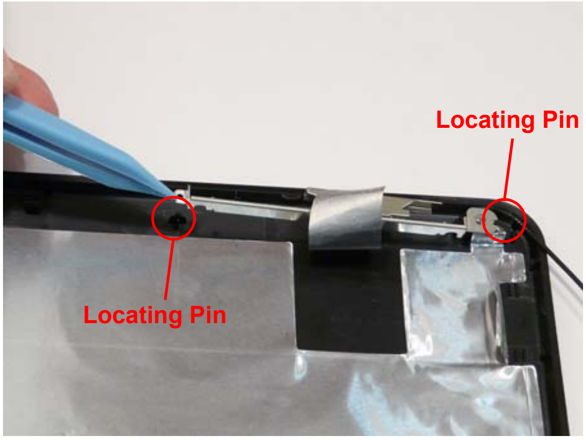


LCD Module Reassembly Procedure

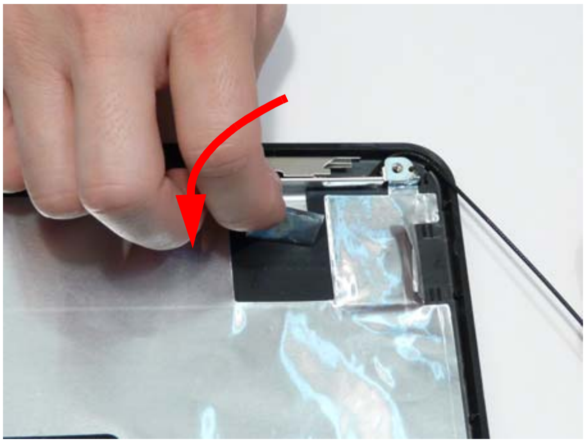
Replacing the Antennas

1. Replace the right Antenna as shown. Ensure that the locating pins on the Antenna are correctly seated.

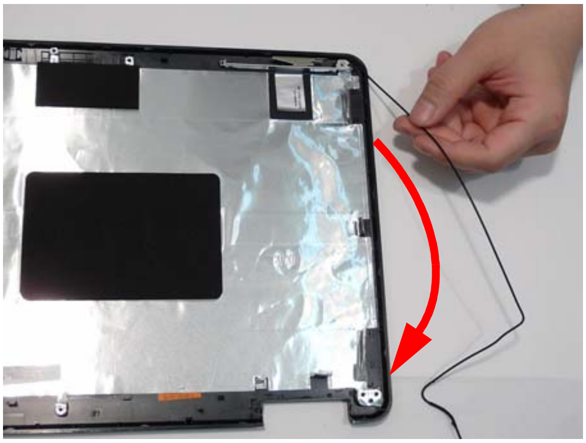




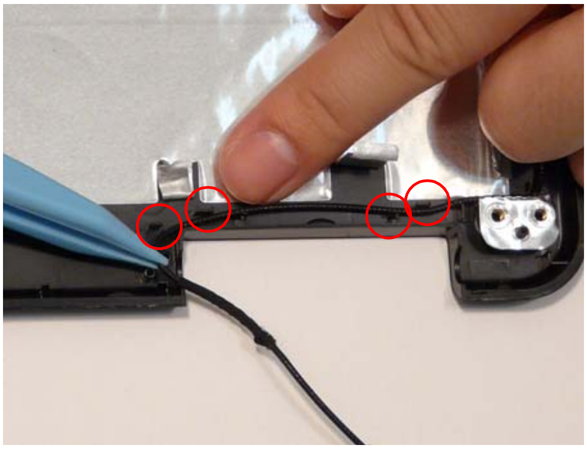
2. Replace the adhesive strip to secure the Antenna in place.



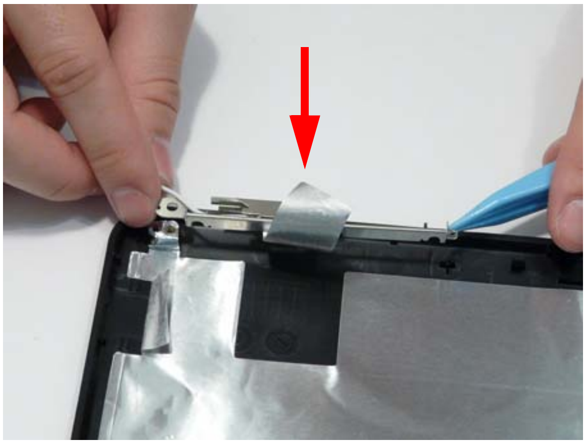
3. Run the cable down the side of the LCD Module using all available clips and adhesive.

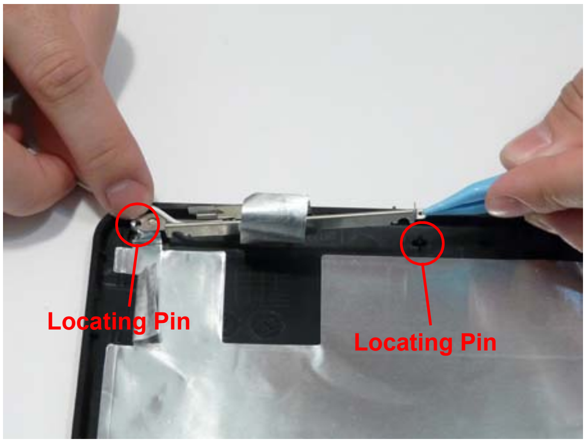


4. Run the cable along the cable channel as shown, using all available cable clips.



5. Replace the left Antenna as shown. Ensure that the locating pins on the Antenna are correctly seated.

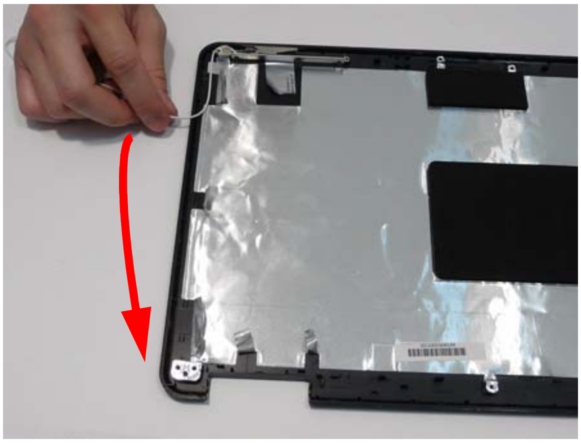




6. Replace the adhesive strip to secure the Antenna in place.



7. Run the cable down the side of the LCD Module using all available clips and adhesive.



8. Run the cable along the cable channel as shown, using all available cable clips and adhesive.

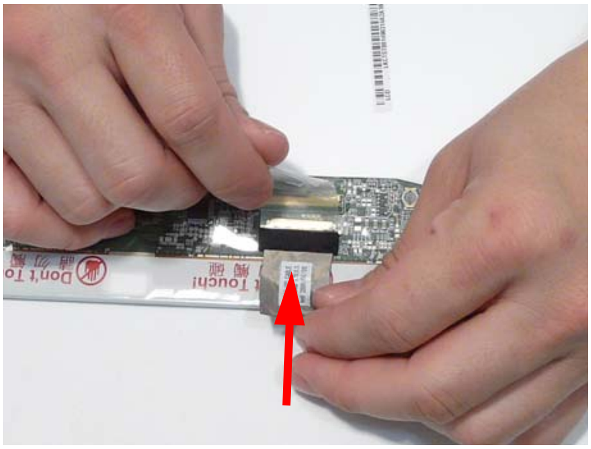


9. The Antennas and cables appear as shown when correctly installed.

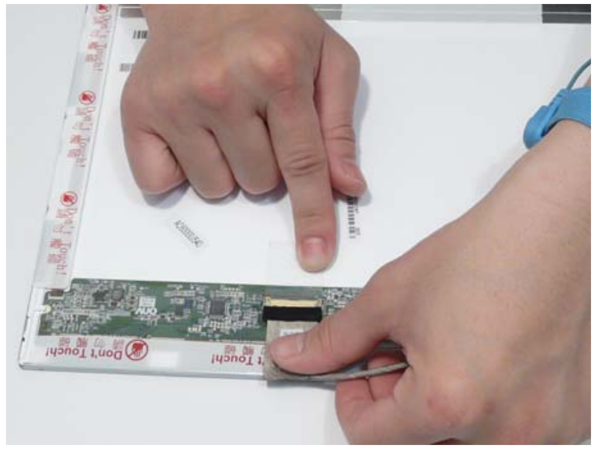


Replacing the LCD Panel

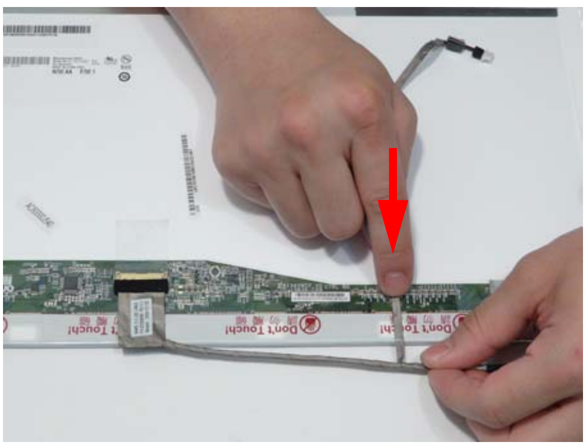
1. Connect the LCD cable to the panel connector as shown.



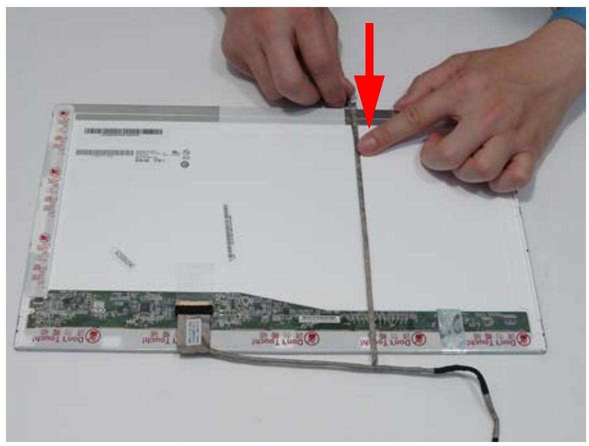
2. Press down the adhesive strip to secure the cable in place.



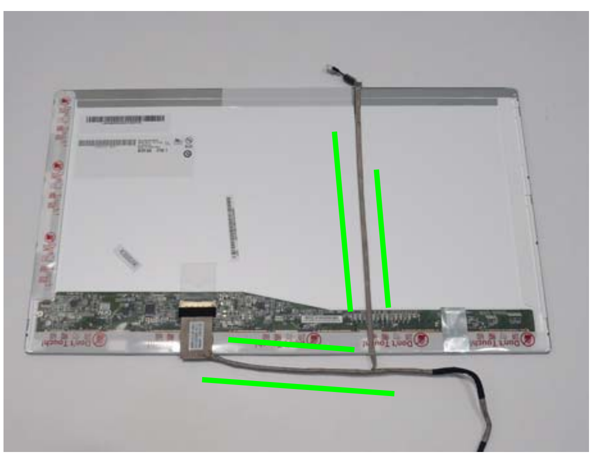
3. Run the cable along the back of the panel and press down as indicated to secure the cable in place.



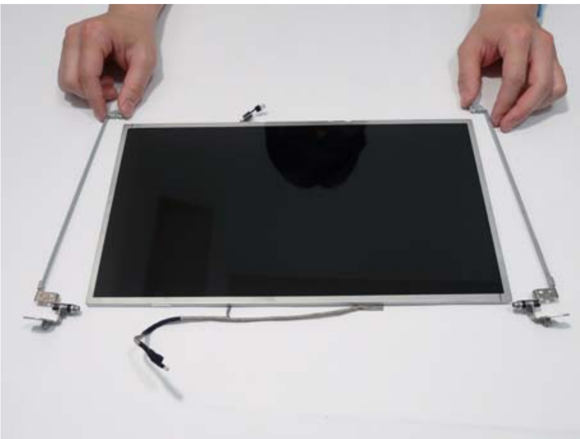
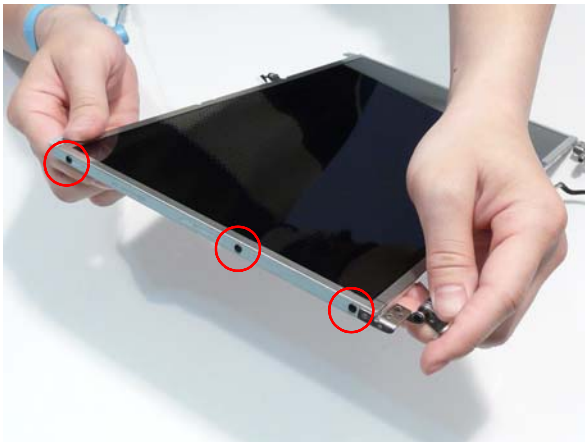
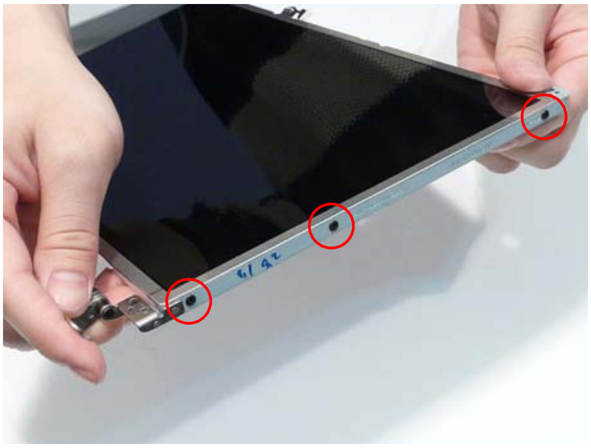
4. Run the cable across the back of the panel as shown and press down as indicated to secure the cable in place.



IMPORTANT: Ensure that the LCD cable runs between the green callouts to avoid trapping when the panel is replaced in the LCD Module.

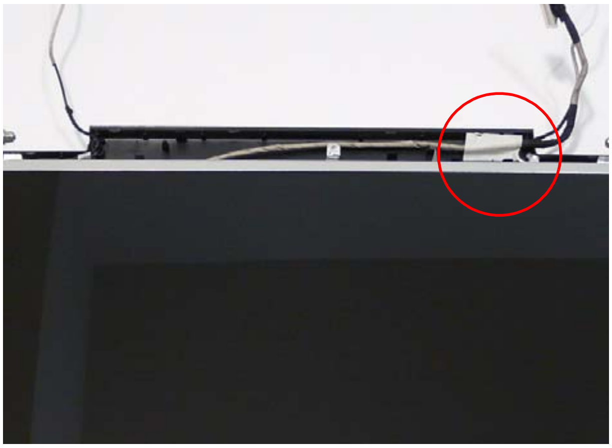


5. Align the LCD brackets with the screw holes on the panel. Replace the six screws (three on each side) in the brackets as shown.

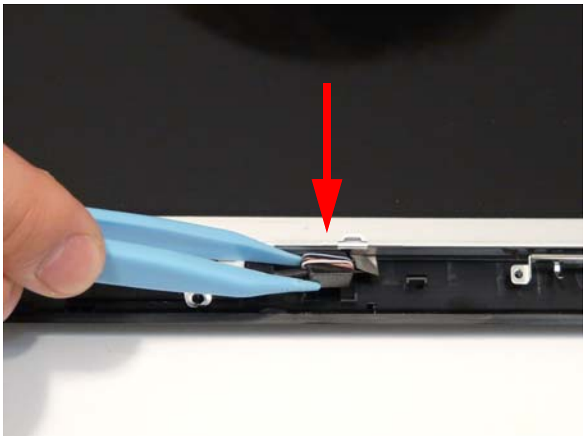




6. Place the LCD Panel in the LCD Module, top edge first, and secure the LCD cable with adhesive tape.

IMPORTANT: Ensure that the LCD power cable passes through the hinge well and is not trapped under the panel.

7. Replace the Camera cable cluster in the LCD Module.

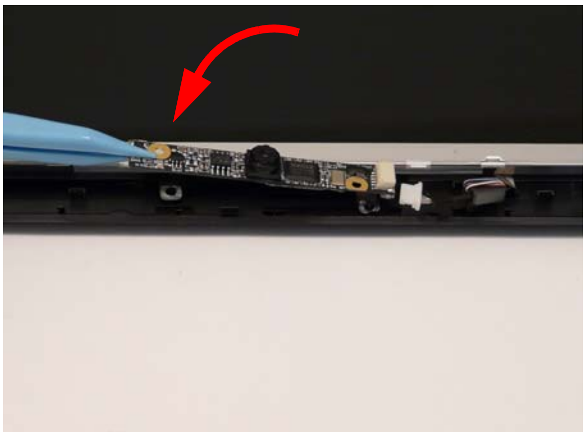


8. Secure the LCD module with the two securing screws.



Replacing the Camera Module

1. Place the camera in the LCD Module.



2. Connect the cable to the camera module.



Replacing the LCD Bezel

1. Replace the bezel and press down until there are no gaps between the bezel and the LCD Module.

   IMPORTANT: Ensure that the LCD cables pass through the hinge wells and are not trapped by the bezel.



2. Replace the four screws and screw caps provided.

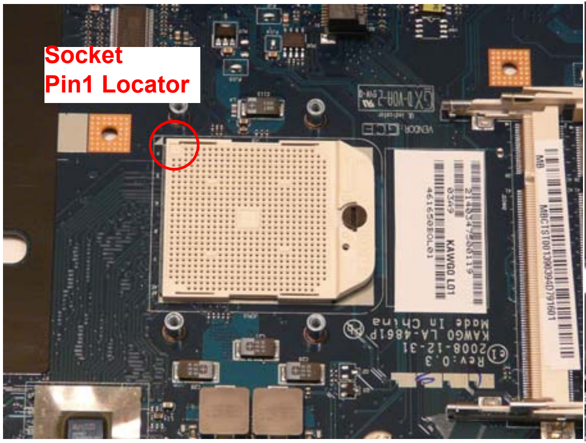


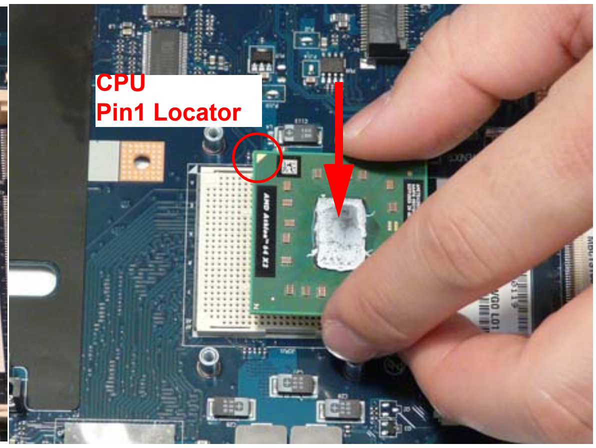
Main Module Reassembly Procedure

Replacing the CPU

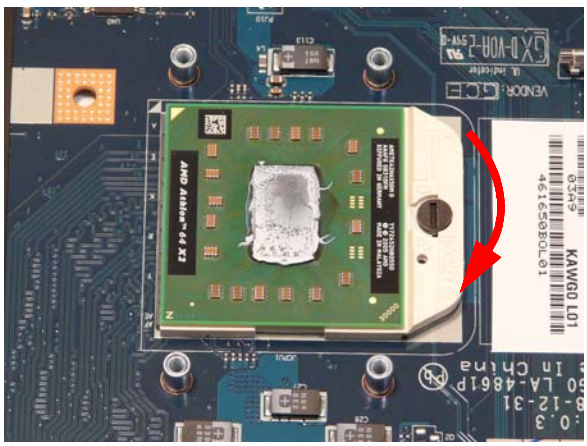
IMPORTANT: The CPU has a Pin1 locator that must be positioned corresponding to the marker on the CPU socket.

1. Place the CPU into the CPU socket as shown, taking note of the Pin1 locator.





2. Using a flat-bladed screw driver, rotate the CPU locking screw 180° clockwise to secure the CPU in place.

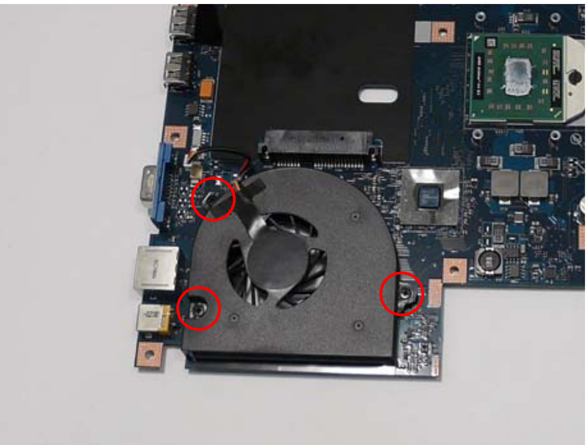


Replacing the CPU Fan

1. Align the screw holes on the CPU Fan and Mainboard and replace the Fan.



2. Replace the three screws to secure the Fan to the Mainboard.



3. Connect the Fan power cable to the Mainboard connector.



Replacing the Thermal Module

IMPORTANT: Apply a suitable thermal grease and ensure all heat pads are in place before replacing the Thermal Module.

The following thermal grease types are approved for use:

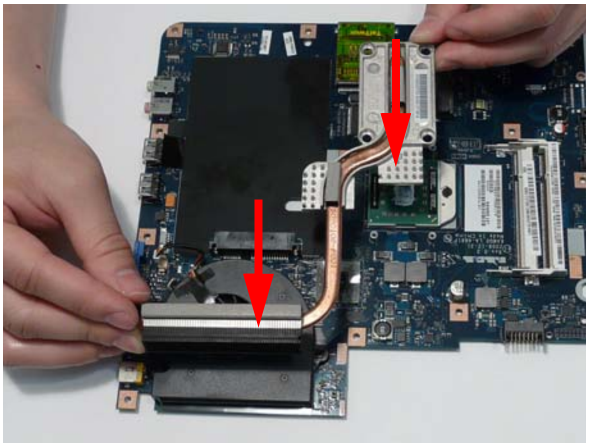
- Silmore GP50
- Honeywell
- Jet Motor 7762

The following thermal pads are approved for use:

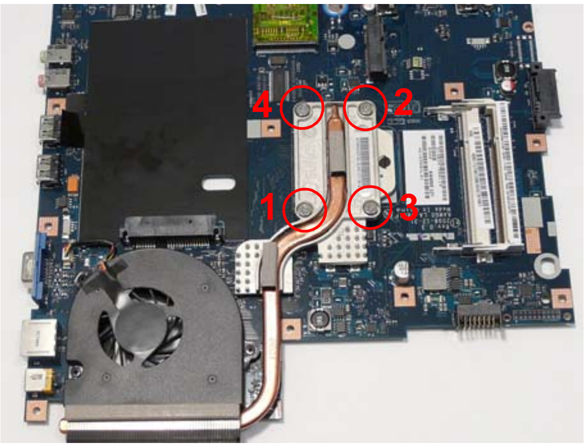
- Eapus XR-PE

1. Remove all traces of thermal grease from the CPU using a lint-free cloth or cotton swab and Isopropyl Alcohol, Acetone, or other approved cleaning agent.
2. Apply a small amount of thermal grease to the centre of the CPU—there is no need to spread the grease manually, the force used during the installation of the Thermal Module is sufficient.

3. Align the screw holes on the Thermal Module and Mainboard then replace the module. Keep the module as level as possible to spread the thermal grease evenly.

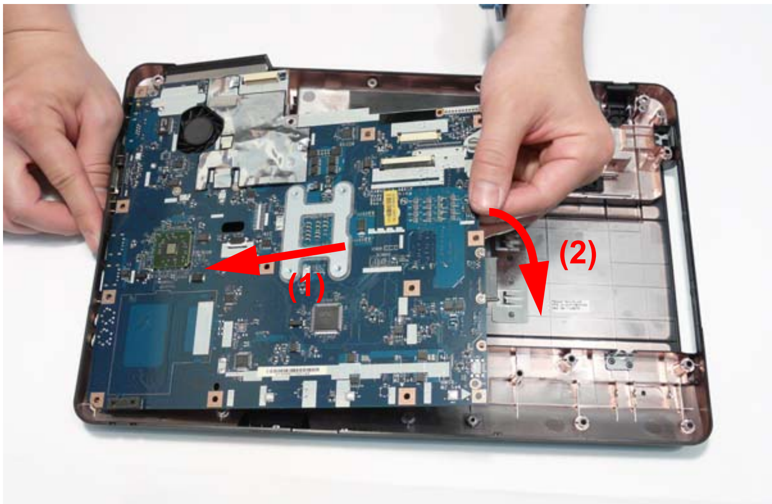


4. Replace the four securing screws (in numerical order from screw 1 to screw 4) to secure the Thermal Module in place.



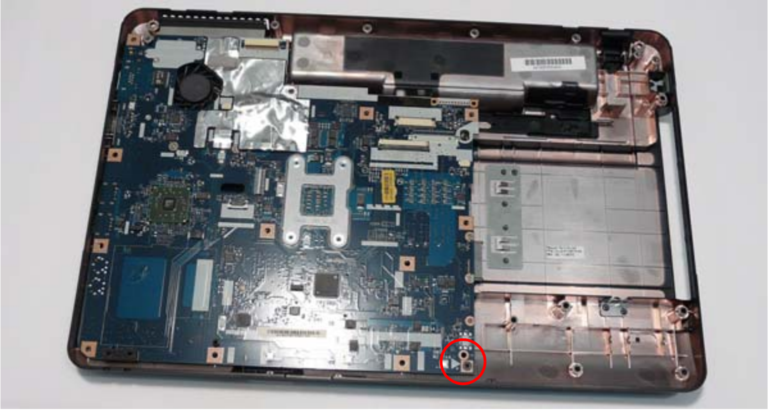
Replacing the Mainboard

1. Ensure that the Mainboard is face up (the CPU is not visible). Place the Mainboard in the chassis, left edge first (1), then rotate it downward into position (2).



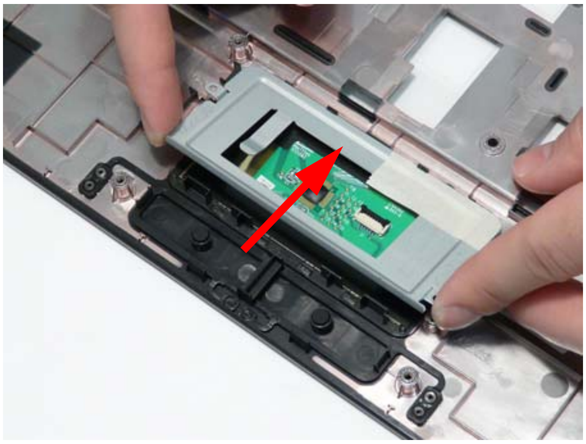
NOTE: Ensure the I/O ports are positioned correctly through the casing.

2. Replace the single securing screw in the mainboard.

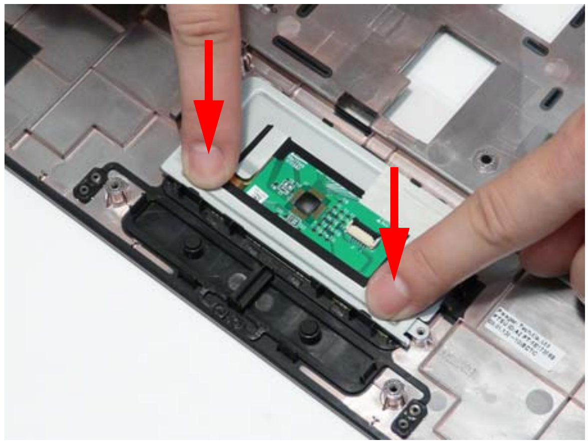


Replacing the TouchPad Bracket

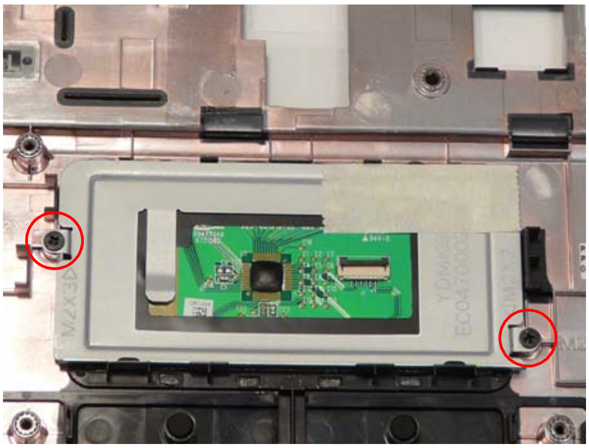
1. Replace the TouchPad bracket top edge first to engage the securing clips.



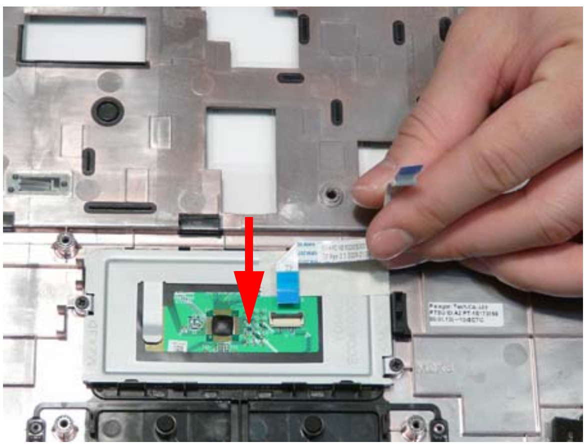
2. Press the bracket down to engage the securing clips.

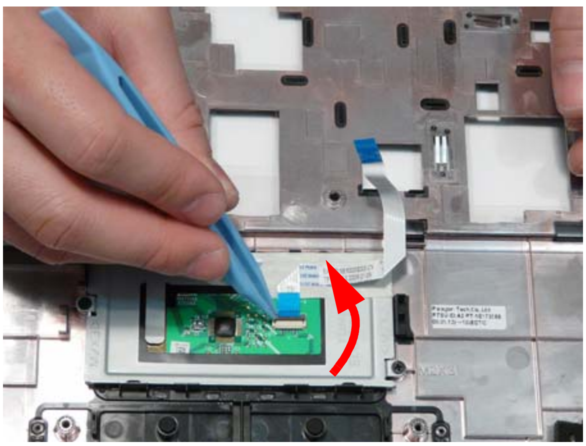


3. Replace the two screws to secure the TouchPad Bracket to the Upper Cover.

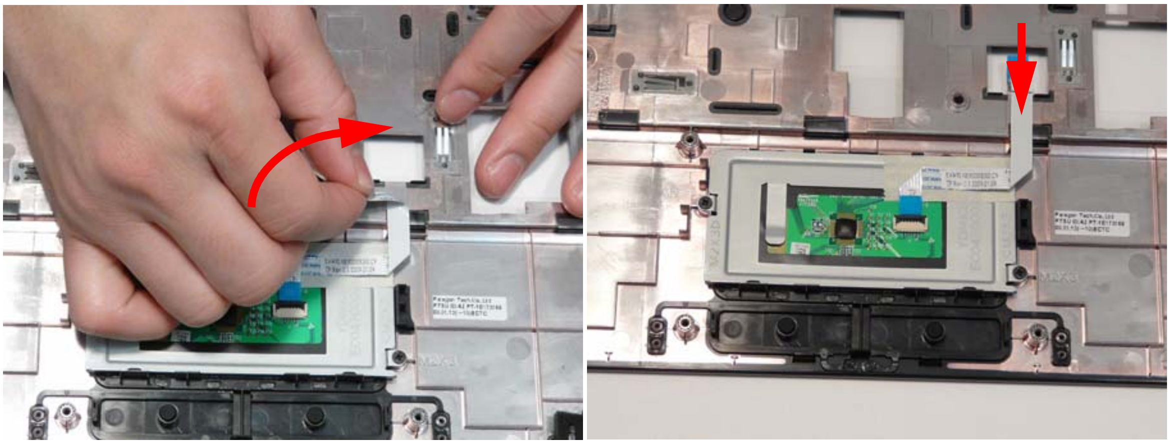


4. Replace the TouchPad FFC and close the locking latch on the connector.



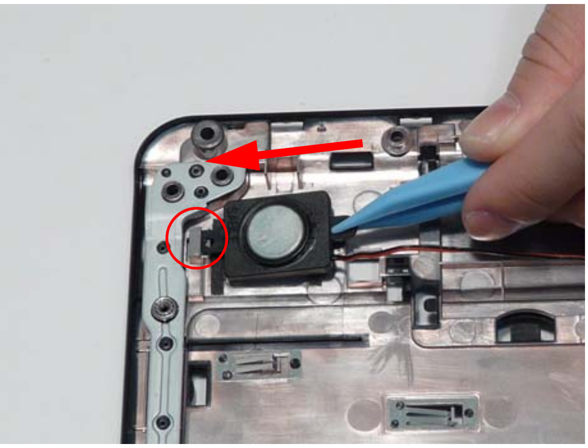


5. Replace the FFC and press down as indicated to secure it to the Upper Cover.

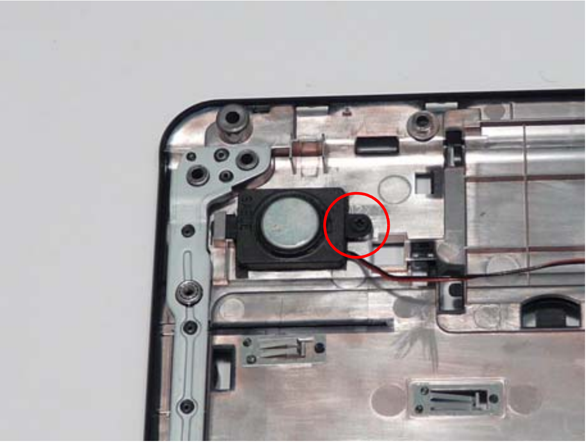


Replacing the Right Speaker Module

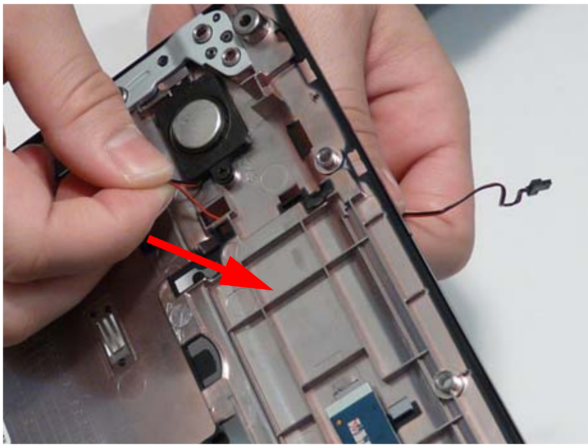
1. Place the module left side first on the Upper Cover as shown. Ensure that the left side of the module is seated correctly in the securing clip.



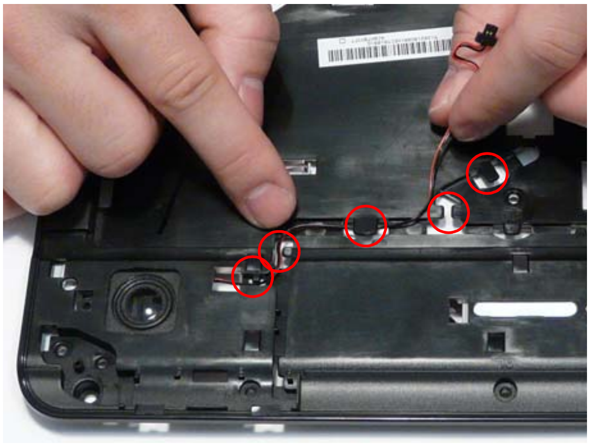
2. Replace the single screw to secure the module in place.



3. Pass the cable through the Upper Cover as shown.



4. Turn the Upper Cover over and run the cablealong the cable channel using all available cable clips.

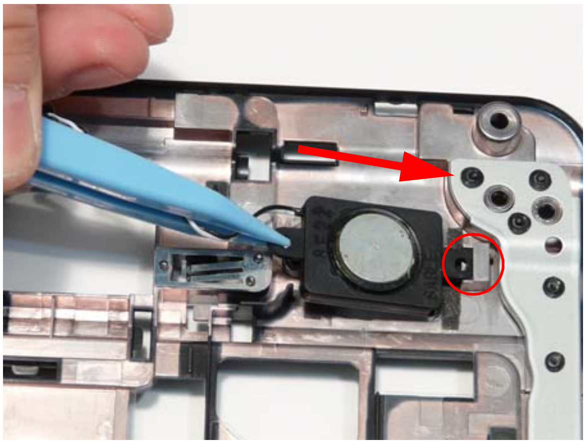


5. The cable runs as shown when correctly installed.

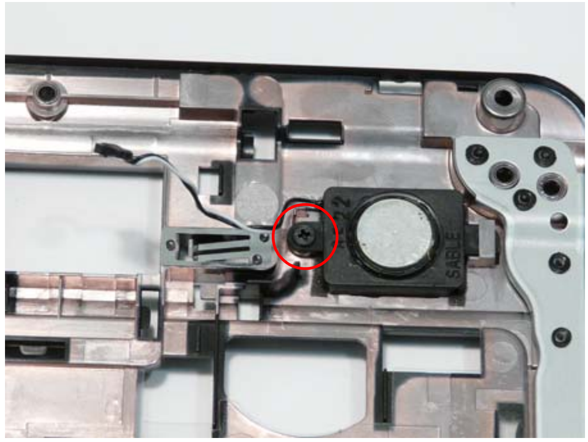


Replacing the Left Speaker Module

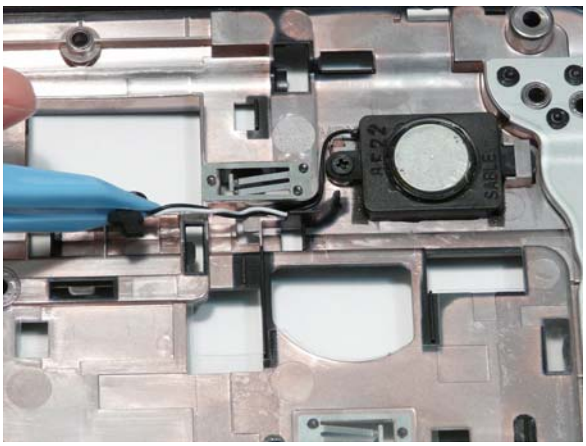
1. Place the module right side first on the Upper Cover as shown. Ensure that the right side of the module is seated correctly in the securing clip.

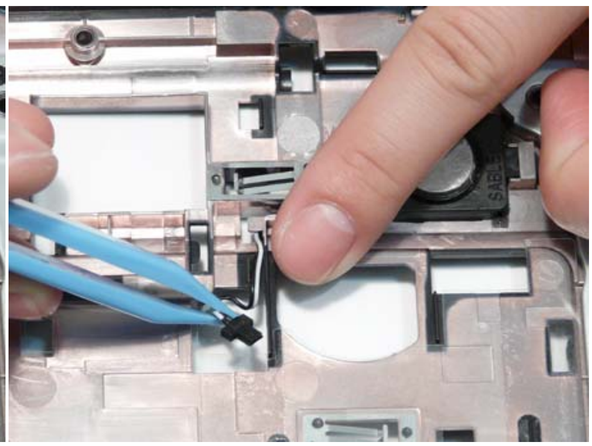


2. Replace the single screw to secure the module in place.

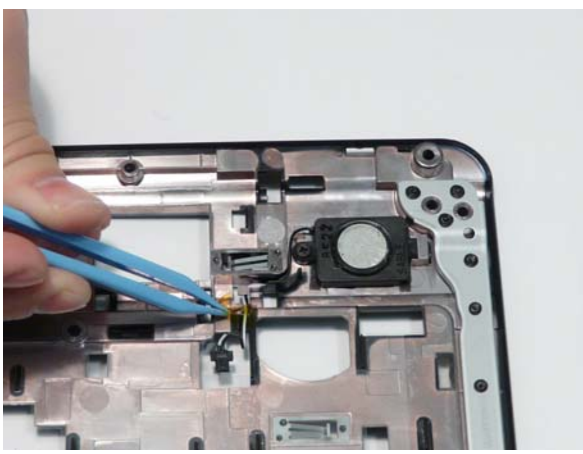


3. Run the cable along the cable channel using all available cable clips.





4. Secure the cable in place with adhesive tape.

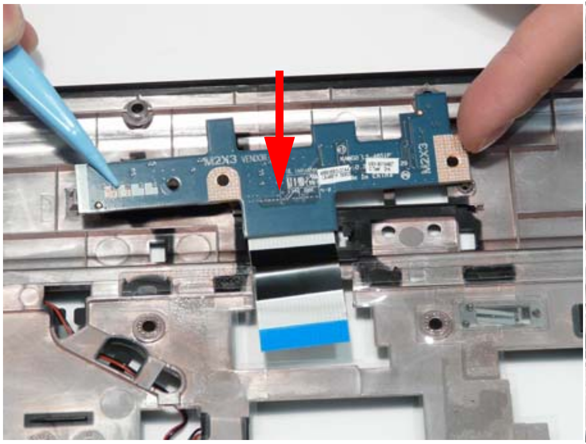


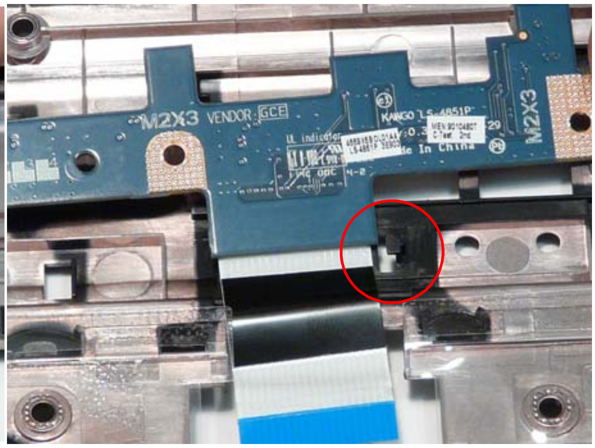
5. The cable runs as shown when correctly installed.



Replacing the Power Board

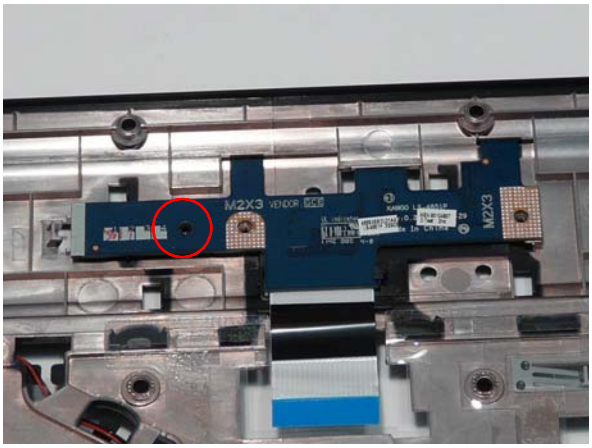
1. Slide the Power Board in to the Upper Cover front edge first to engage the securing clip.

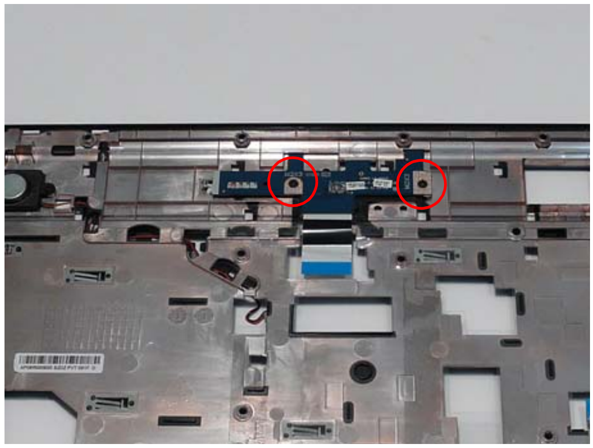




2. Press the board down to locate the securing pin.

3. Replace the two screws to secure the board to the Upper Cover.





Replacing the Upper Cover

1. Place the Upper Cover on the Lower Cover as shown.



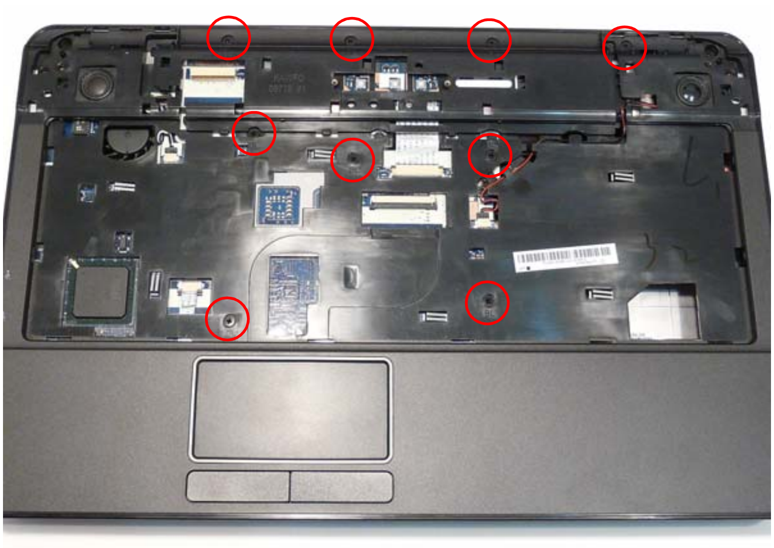
2. Press down around the edges to secure it in place.



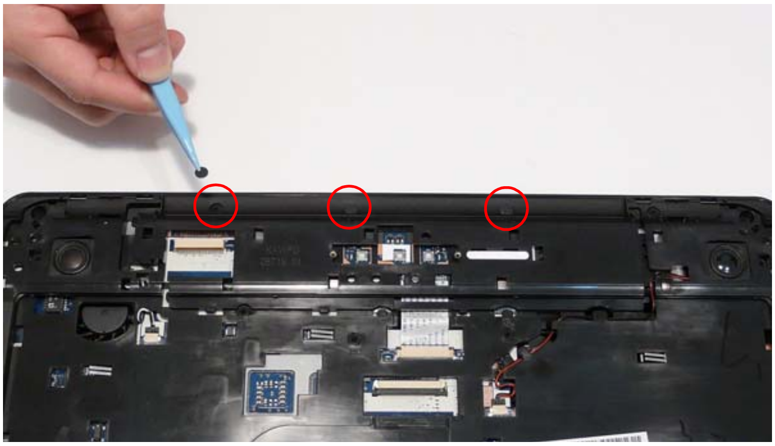




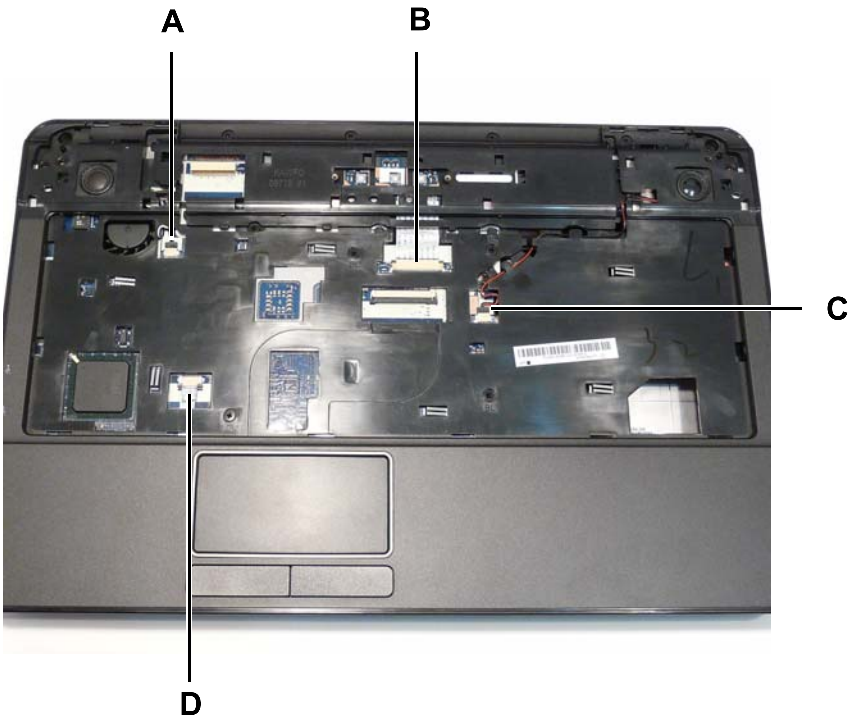
3. Replace the nine screws in the Upper Cover as shown.



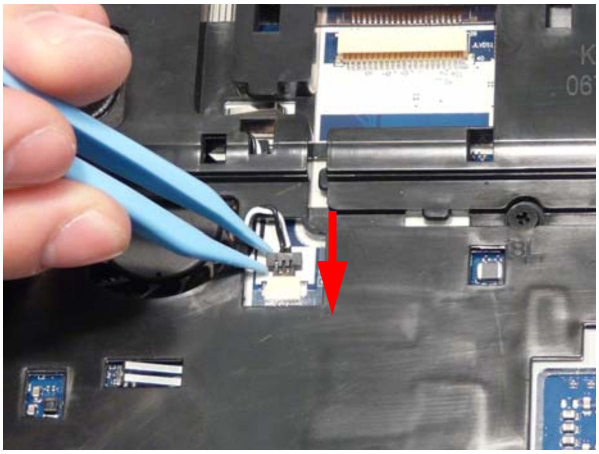
4. Replace the three screw caps as shown.



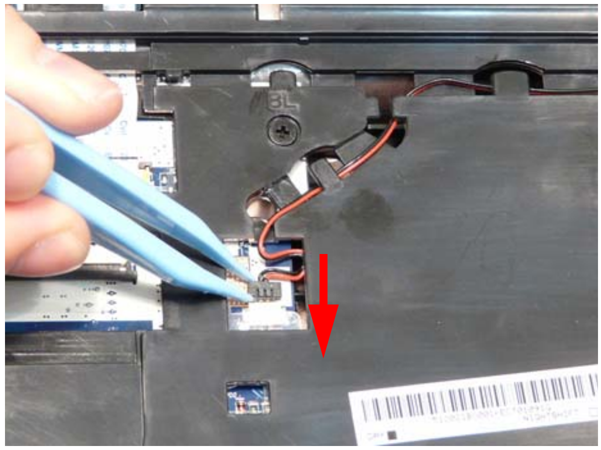
5. Connect the following cables to the Mainboard.



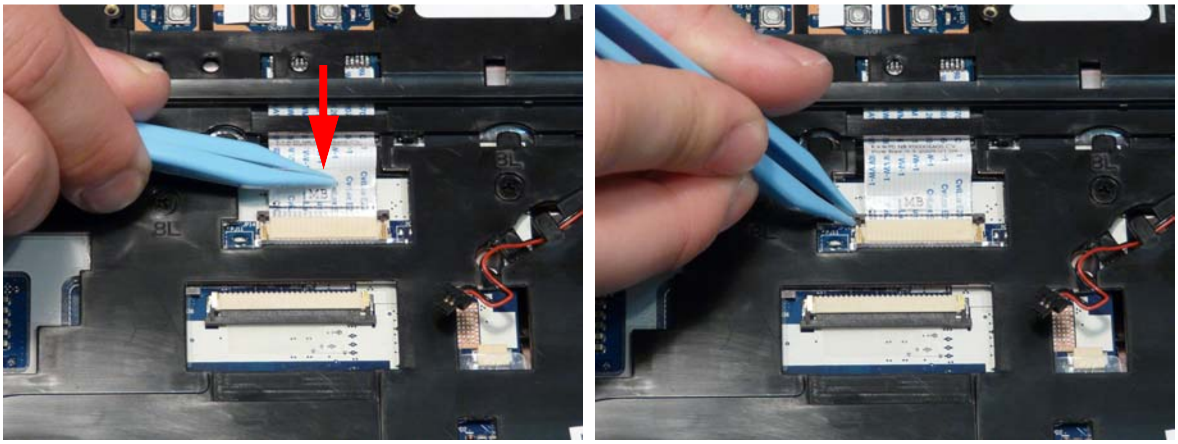
6. Connect A as shown.



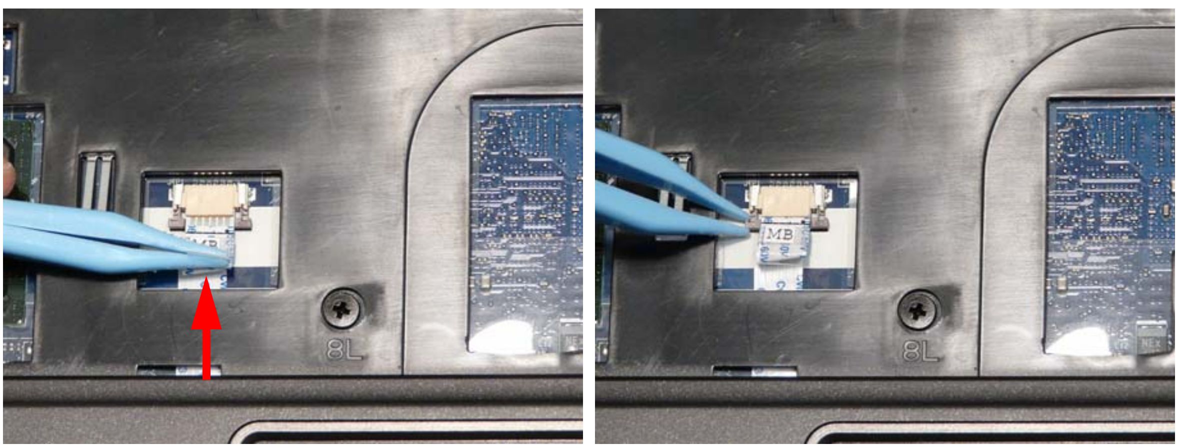
7. Connect C as shown.



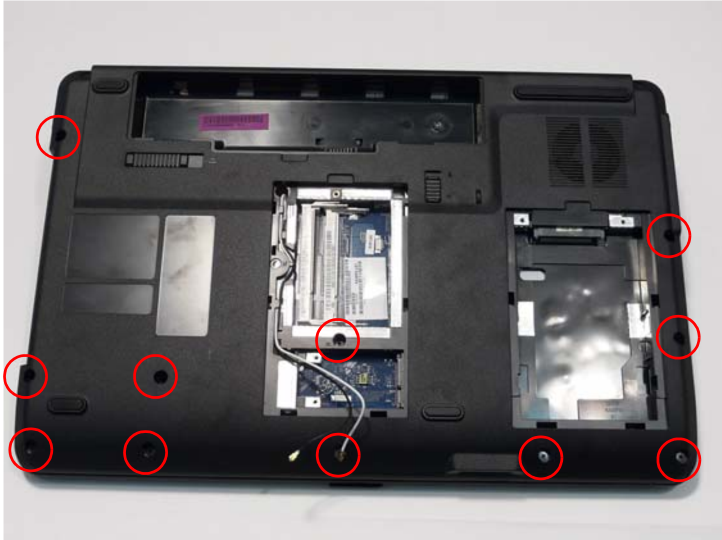
8. Connect B and close the locking latch to secure the cable in place.



9. Connect D and close the locking latch to secure the cable in place.

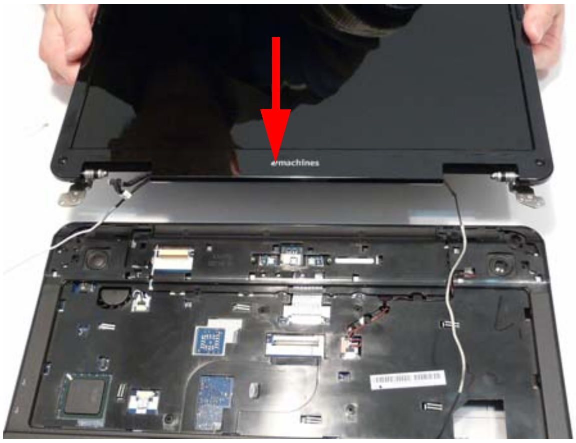


10. Turn the computer over and replace the eleven screws as shown.



Replacing the LCD Module

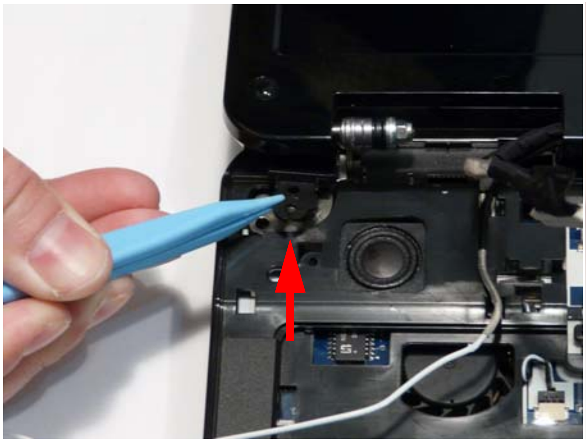
1. Align the screw holes on the LCD Module and Upper Cover and replace the LCD Module.



2. The left and right screw covers are shaped differently. Ensure that the correct cover is used.

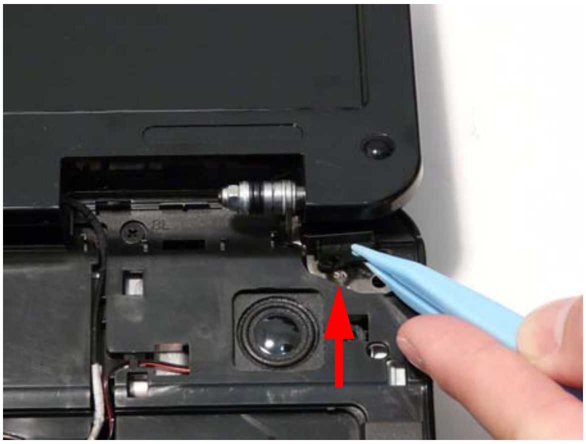


3. Replace the left screw cover as shown. Ensure that the securing tab on the rear of the cover is seated correctly in the Upper Cover.

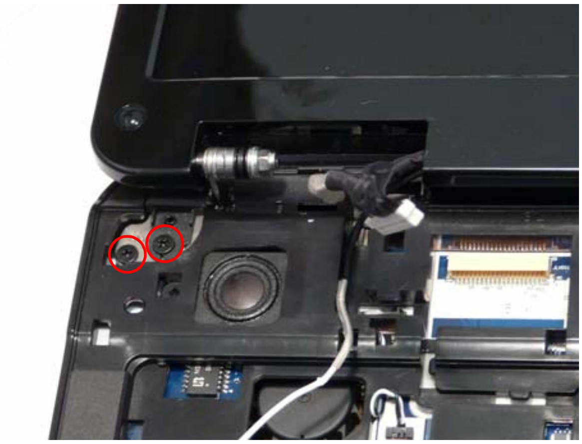




4. Replace the right screw cover as shown. Ensure that the securing tab on the rear of the cover is seated correctly in the Upper Cover.



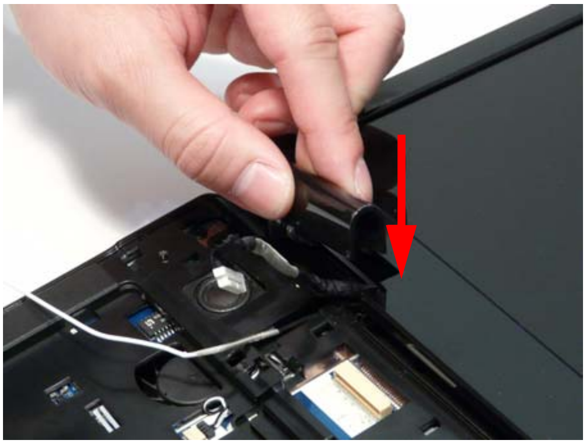

5. Replace the four screws securing the LCD Module to the Upper Cover.




6. Ensure that the Hinge Covers are replaced correctly. Identify the rear edge of the covers by the two securing clips.

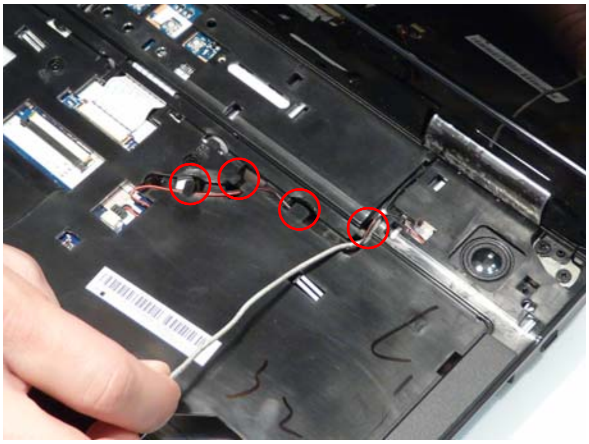


7. Align the left Hinge Cover as shown and press down to replace the cover.

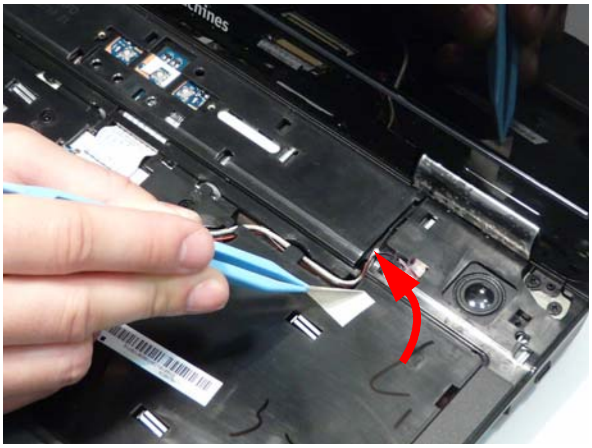


8. Repeat the process for the right side Hinge Cover.

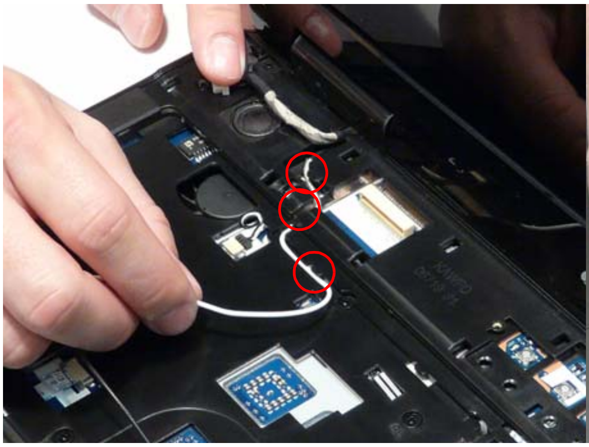
9. Run the black Antenna cable along the cable channel as shown using all available retaining clips.

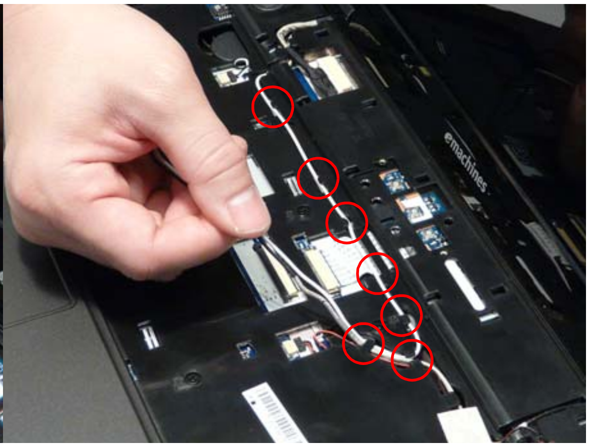


10. Replace the adhesive strip to secure the cable in place.

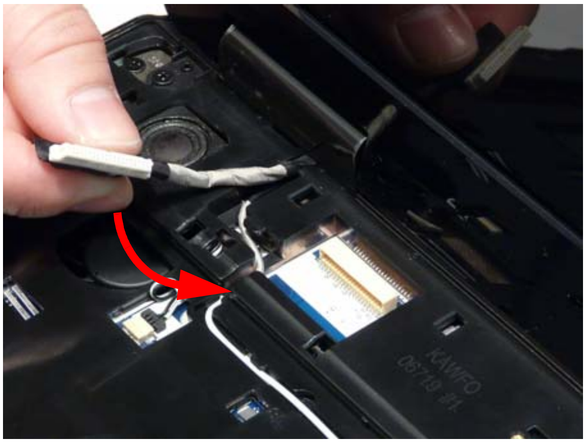


11. Run the white Antenna cable along the cable channel as shown using all available retaining clips.

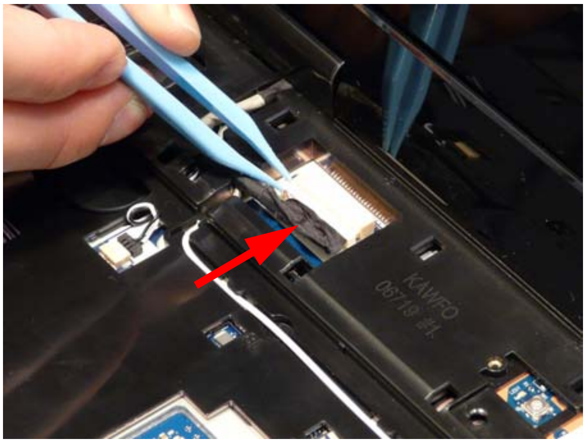




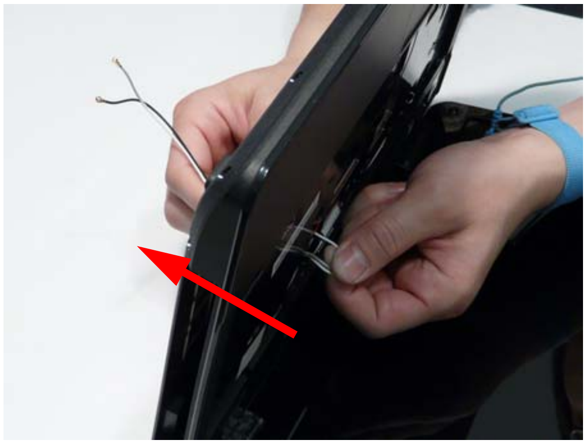
12. Run the LCD cable along the cable channel using all available cable clips.



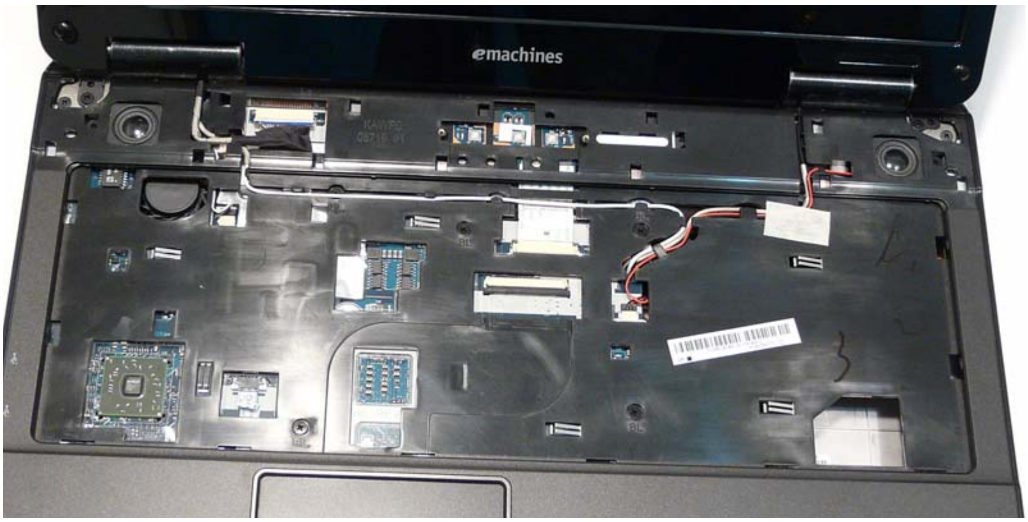
13. Connect the LCD cable to the Mainboard as shown.



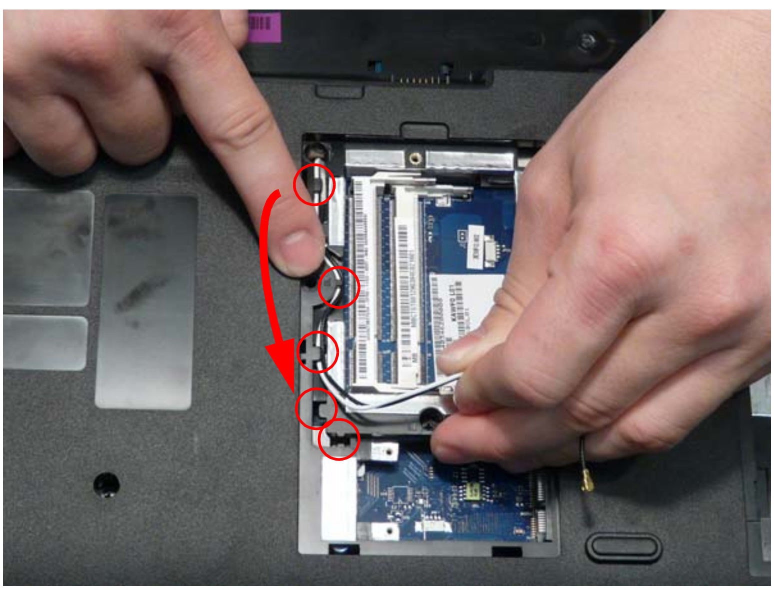
14. Stand the computer on the LCD Panel and pass the Antenna cables through the chassis.



15. The Upper Cover appears as shown when the Antenna and LCD cables are correctly installed.



16. Turn the computer over. Run the Antenna cables along the cable channel as shown, using all available cable clips.

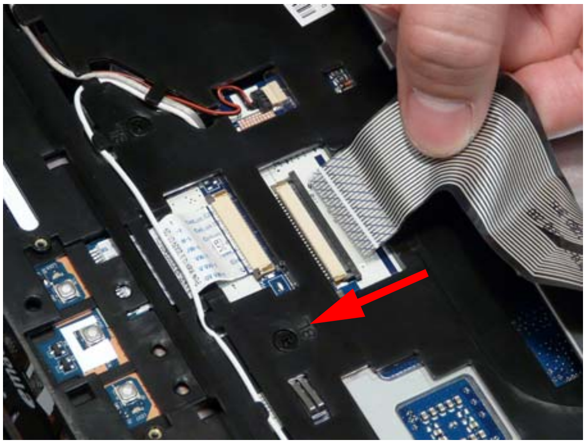


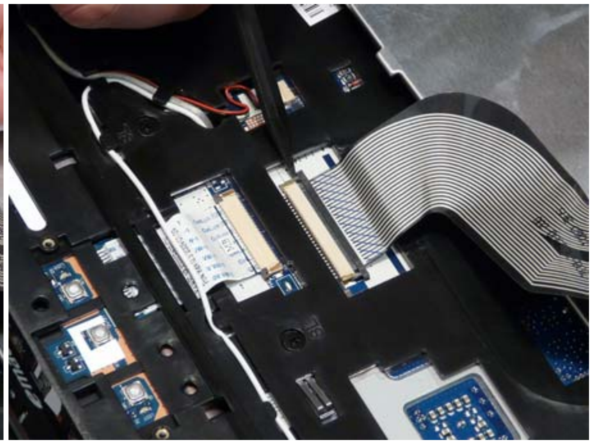
17. Replace the two screws securing the LCD Module to the Lower Cover.



Replacing the Keyboard

1. Connect the Keyboard FFC to the Mainboard and close the locking latch to secure the cable in place.





2. Turn the Keyboard over and insert it front edge first into the chassis.

   NOTE: Ensure that the six locating tabs are correctly seated.

3. Press down as indicated to secure the Keyboard in place.





Replacing the Switch Cover

1. Place the Switch Cover left side first on to the Upper Cover.



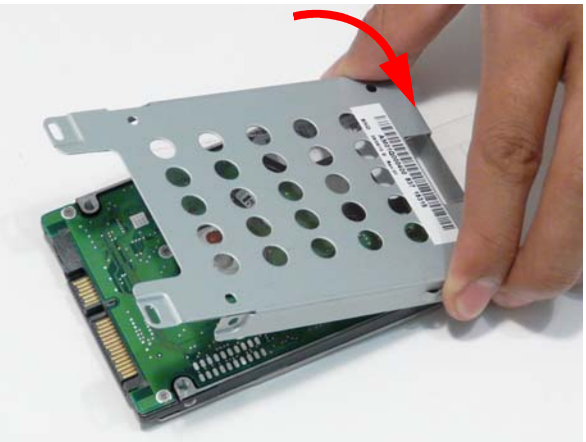
2. Press down as indicated to snap the Switch Cover into place.



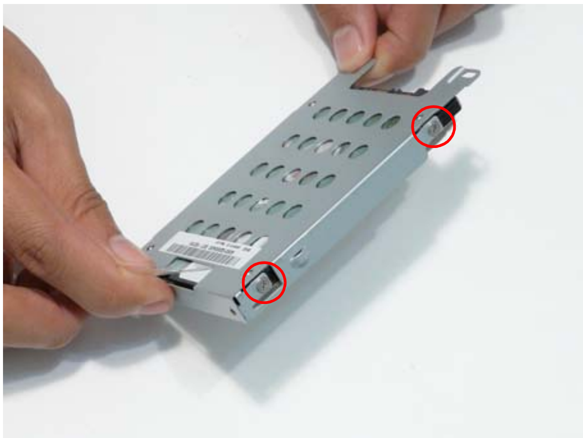


Replacing the Hard Disk Drive Module

1. Place the HDD in the HDD carrier.



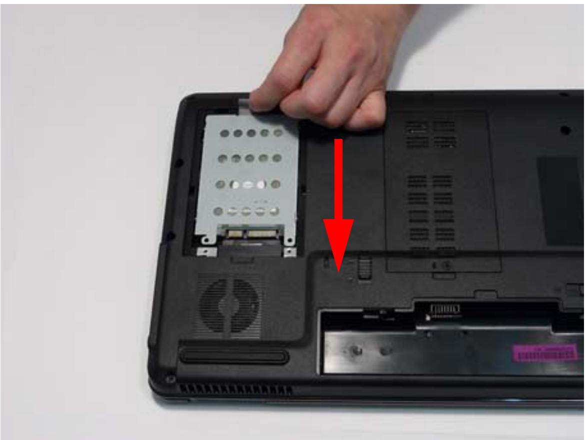
2. Replace the four screws (two each side) to secure the carrier.



3. Insert the HDD, as indicated and lower it into place.



4. Slide the HDD in the direction of the arrow to connect the interface.



Replacing the WLAN Module

1. Insert the WLAN Module into the WLAN socket.



2. Replace the two screws to secure the module.

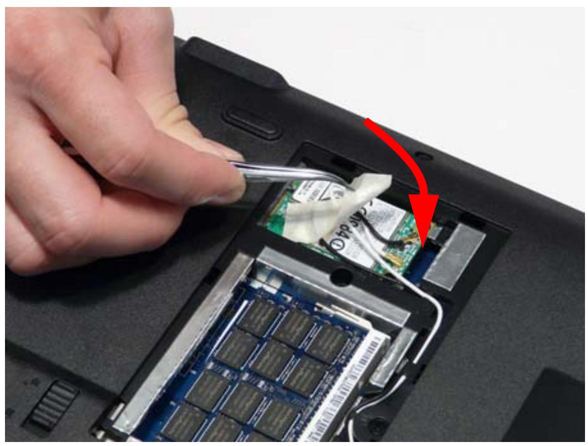


3. Connect the two Antenna cables to the module.

   NOTE: The black cable connects to the upper terminal (MAIN) and the white cable to the lower terminal (MAIN).

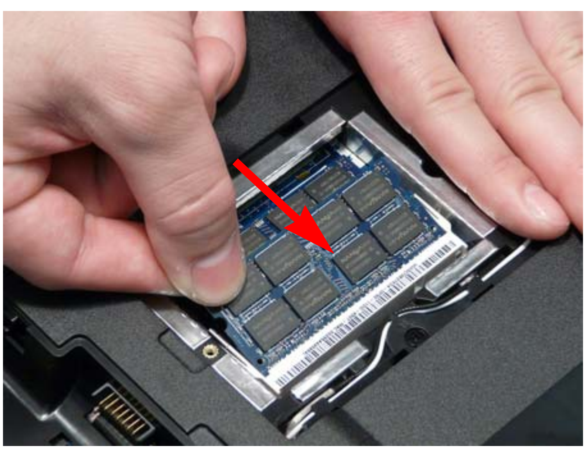


4. After connecting the cables to the terminals, secure the cables in place with adhesive tape to avoid trapping.

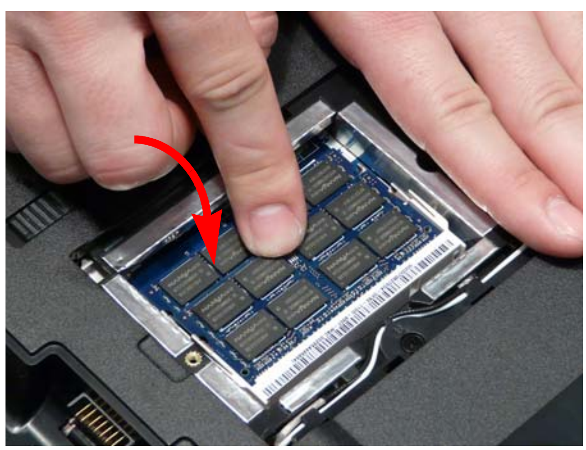


Replacing the DIMM Modules

1. Insert the DIMM Module in place.



2. Press down to lock the DIMM module in place.



3. Repeat steps for the second DIMM module if present.

Replacing the ODD Module

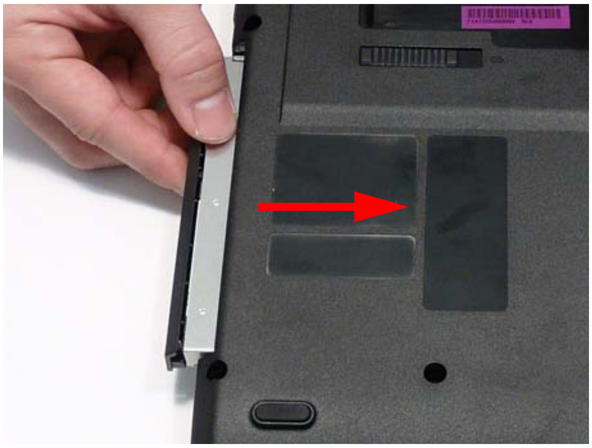
1. Press the bezel into the tray, bottom edge first, to secure it to the ODD Module.



2. Secure the ODD bracket with the two screws.



3. Push the ODD Module into the ODD bay until it is flush with the casing.



4. Replace the single screw to secure the Module.



Replacing the Lower Covers

1. Replace the Memory Cover as shown.



2. Replace the HDD Cover as shown.



IMPORTANT: Press down around the perimeter of the covers to ensure that the all the securing tabs are correctly located in the casing.

3. Replace the three screws to secure the covers in place.



Replacing the SD Dummy Card

1. Insert the SD Dummy Card into the slot as shown.



2. Push until the card clicks into place and is flush with the casing.



Replacing the Battery

1. Slide and hold the battery release latch to the release position (1), insert the battery pack and press down (2).



2. Slide the battery lock in the direction shown to secure the battery in place.



Troubleshooting

Common Problems

Use the following procedure as a guide for computer problems.

NOTE: The diagnostic tests are intended to test only Acer products. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

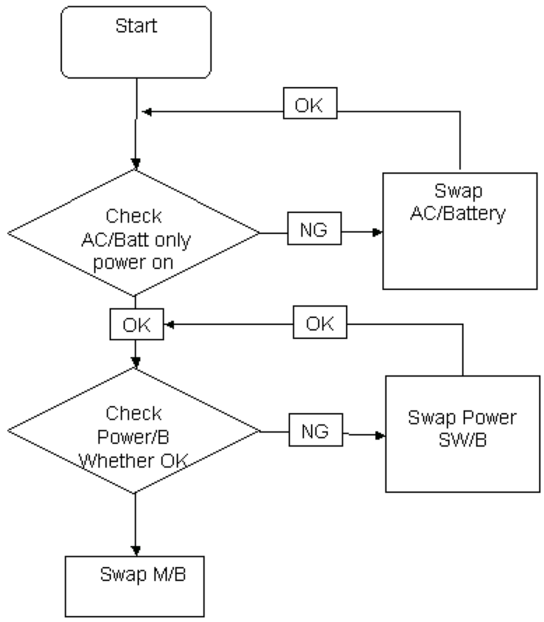
1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Use the following table with the verified symptom to determine which page to go to.

Symptoms (Verified)	Go To
Power On Issue	Page 120
No Display Issue	Page 121
LCD Failure	Page 123
Internal Keyboard Failure	Page 123
TouchPad Failure	Page 124
Internal Speaker Failure	Page 124
ODD Failure	Page 127
WLAN Failure	Page 130
Thermal Unit Failure	Page 130
Other Functions Failure	Page 131
Intermittent Failures	Page 132
Undermined Failures	Page 132

4. If the Issue is still not resolved, see “Online Support Information” on page 187.

Power On Issue

If the system doesn't power on, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



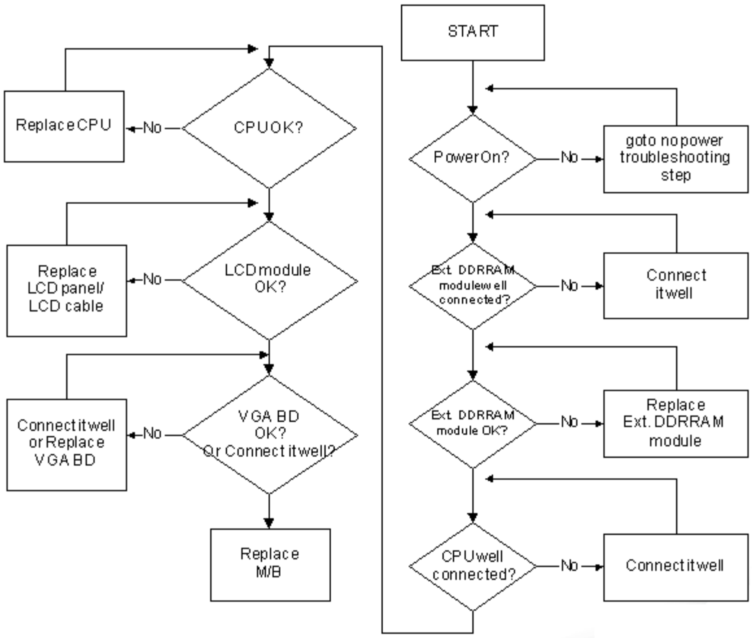
Computer Shutsdown Intermittently

If the system powers off at intervals, perform the following actions one at a time to correct the problem.

1. Check the power cable is properly connected to the computer and the electrical outlet.
2. Remove any extension cables between the computer and the outlet.
3. Remove any surge protectors between the computer and the electrical outlet. Plug the computer directly into a known good electrical outlet.
4. Disconnect the power and open the casing to check the Thermal Unit (see "Thermal Unit Failure" on page 130) and fan airways are free of obstructions.
5. Remove all external and non-essential hardware connected to the computer that are not necessary to boot the computer to the failure point.
6. Remove any recently installed software.
7. If the Issue is still not resolved, see "Online Support Information" on page 187.

No Display Issue

If the **Display** doesn't work, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



No POST or Video

If the POST or video doesn't display, perform the following actions one at a time to correct the problem.

1. Make sure that the internal display is selected. On this notebook model, switching between the internal display and the external display is done by pressing **Fn+F5**. Reference Product pages for specific model procedures.
2. Make sure the computer has power by checking at least one of the following occurs:
   - Fans start up
   - Status LEDs light up

   If there is no power, see "Power On Issue" on page 120.
3. Drain any stored power by removing the power cable and battery and holding down the power button for 10 seconds. Reconnect the power and reboot the computer.
4. Connect an external monitor to the computer and switch between the internal display and the external display is by pressing **Fn+F5** (on this model).

   If the POST or video appears on the external display, see "LCD Failure" on page 123.
5. Disconnect power and all external devices including port replicators or docking stations. Remove any memory cards and CD/DVD discs. Restart the computer.

   If the computer boots correctly, add the devices one by one until the failure point is discovered.
6. Reseat the memory modules.
7. Remove the drives (see "Disassembly Process" on page 40).
8. If the Issue is still not resolved, see "Online Support Information" on page 187.

Abnormal Video Display

If video displays abnormally, perform the following actions one at a time to correct the problem.

1. Reboot the computer.
2. If permanent vertical/horizontal lines or dark spots display in the same location, the LCD is faulty and should be replaced. See “Disassembly Process” on page 40.
3. If extensive pixel damage is present (different colored spots in the same locations on the screen), the LCD is faulty and should be replaced. See “Disassembly Process” on page 40.
4. Adjust the brightness to its highest level. See the User Manual for instructions on adjusting settings.

   NOTE: Ensure that the computer is not running on battery alone as this may reduce display brightness.

   If the display is too dim at the highest brightness setting, the LCD is faulty and should be replaced. See “Disassembly Process” on page 40.
5. Check the display resolution is correctly configured:
   a. Minimize or close all Windows.
   b. If display size is only abnormal in an application, check the view settings and control/mouse wheel zoom feature in the application.
   c. If desktop display resolution is not normal, right-click on the desktop and select **Personalize**→ **Display Settings**.
   d. Click and drag the Resolution slider to the desired resolution.
   e. Click **Apply** and check the display. Readjust if necessary.
6. Roll back the video driver to the previous version if updated.
7. Remove and reinstall the video driver.
8. Check the Device Manager to determine that:
   - The device is properly installed. There are no red Xs or yellow exclamation marks.
   - There are no device conflicts.
   - No hardware is listed under Other Devices.
9. If the Issue is still not resolved, see “Online Support Information” on page 187.
10. Run the Windows Memory Diagnostic from the operating system DVD and follow the onscreen prompts.
11. If the Issue is still not resolved, see “Online Support Information” on page 187.

Random Loss of BIOS Settings

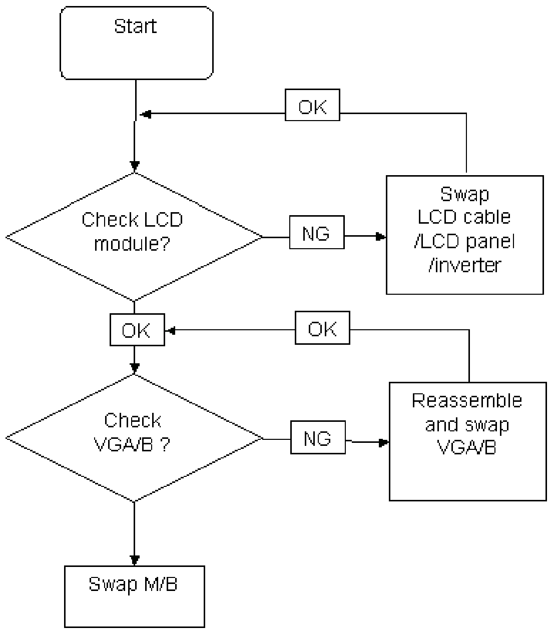
If the computer is experiencing intermittent loss of BIOS information, perform the following actions one at a time to correct the problem.

1. If the computer is more than one year old, replace the CMOS battery.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. If the computer is experiencing HDD or ODD BIOS information loss, disconnect and reconnect the power and data cables between devices.

   If the BIOS settings are still lost, replace the cables.
4. If HDD information is missing from the BIOS, the drive may be defective and should be replaced.
5. Replace the Motherboard.
6. If the Issue is still not resolved, see “Online Support Information” on page 187.

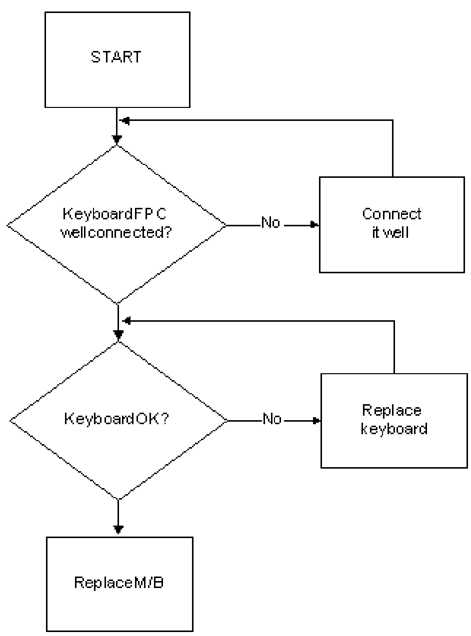
LCD Failure

If the **LCD** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



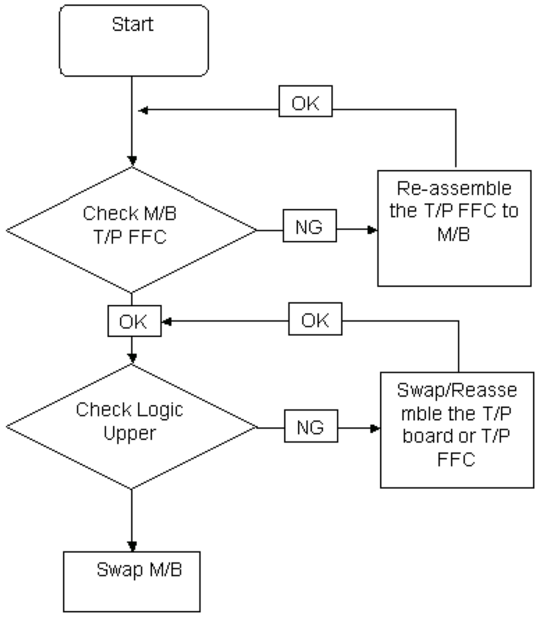
Built-In Keyboard Failure

If the built-in **Keyboard** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



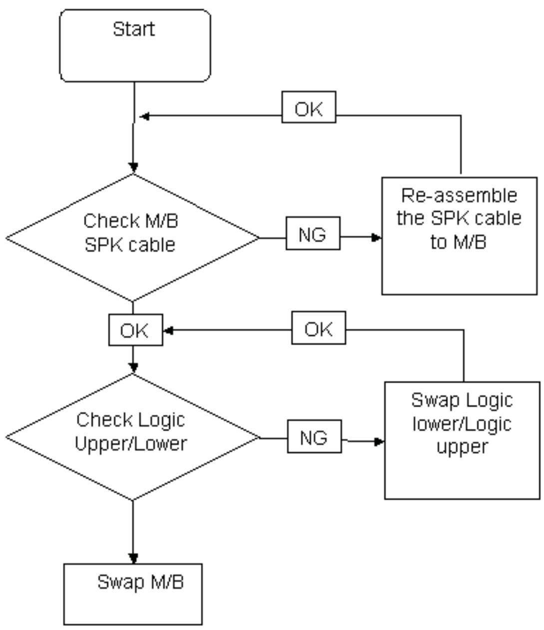
TouchPad Failure

If the **TouchPad** doesn't work, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Internal Speaker Failure

If the internal **Speakers** fail, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Sound Problems

If sound problems are experienced, perform the following actions one at a time to correct the problem.

1. Reboot the computer.
2. Navigate to **Start**→ **Control Panel**→ **System and Maintenance**→ **System**→ **Device Manager**. Check the Device Manager to determine that:
   - The device is properly installed.
   - There are no red Xs or yellow exclamation marks.
   - There are no device conflicts.
   - No hardware is listed under Other Devices.
3. Roll back the audio driver to the previous version, if updated recently.
4. Remove and reinstall the audio driver.
5. Ensure that all volume controls are set mid range:
   a. Click the volume icon on the taskbar and drag the slider to 50. Ensure that the volume is not muted.
   b. Click Mixer to verify that other audio applications are set to 50 and not muted.
6. Navigate to **Start**→ **Control Panel**→ **Hardware and Sound**→ **Sound**. Ensure that Speakers are selected as the default audio device (green check mark).
   NOTE: If Speakers does not show, right-click on the **Playback** tab and select **Show Disabled Devices** (clear by default).
7. Select Speakers and click **Configure** to start **Speaker Setup**. Follow the onscreen prompts to configure the speakers.
8. Remove and recently installed hardware or software.
9. Restore system and file settings from a known good date using **System Restore**.
   If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
10. Reinstall the Operating System.
11. If the Issue is still not resolved, see “Online Support Information” on page 187.

Microphone Problems

If internal or external **Microphones** do no operate correctly, perform the following actions one at a time to correct the problem.

1. Check that the microphone is enabled. Navigate to **Start**→ **Control Panel**→ **Hardware and Sound**→ **Sound** and select the **Recording** tab.
2. Right-click on the **Recording** tab and select **Show Disabled Devices** (clear by default).
3. The microphone appears on the **Recording** tab.
4. Right-click on the microphone and select **Enable**.
5. Select the microphone then click **Properties**. Select the **Levels** tab.
6. Increase the volume to the maximum setting and click **OK**.
7. Test the microphone hardware:
   a. Select the microphone and click **Configure**.
   b. Select **Set up microphone**.
   c. Select the microphone type from the list and click **Next**.
   d. Follow the onscreen prompts to complete the test.
8. If the Issue is still not resolved, see “Online Support Information” on page 187.

HDD Not Operating Correctly

If the **HDD** does not operate correctly, perform the following actions one at a time to correct the problem.

1. Disconnect all external devices.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. Run the Windows 7 Startup Repair Utility:
    a. insert the Windows 7 Operating System DVD in the ODD and restart the computer.
    b. When prompted, press any key to start to the operating system DVD.
    c. The **Install Windows** screen displays. Click **Next**.
    d. Select **Repair your computer**.
    e. The **System Recovery Options** screen displays. Click **Next**.
    f. Select the appropriate operating system, and click **Next**.

    NOTE: Click **Load Drivers** if controller drives are required.

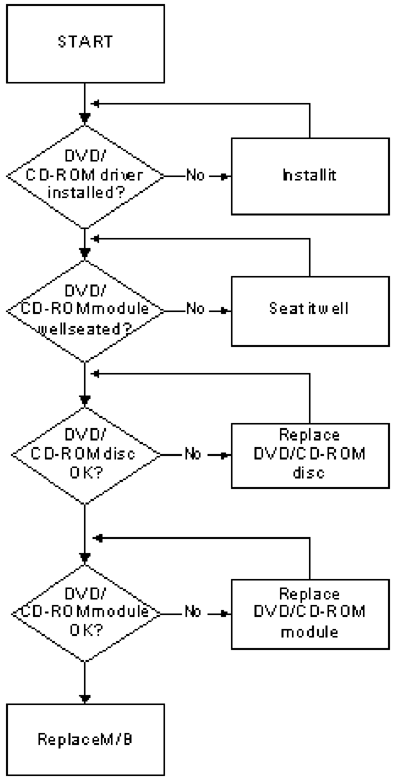
    g. Select **Startup Repair**.
    h. Startup Repair attempts to locate and resolve issues with the computer.
    i. When complete, click **Finish**.

    If an issue is discovered, follow the onscreen information to resolve the problem.
4. Run the Windows Memory Diagnostic Tool. For more information see Windows Help and Support.
5. Restart the computer and press F2 to enter the BIOS Utility. Check the BIOS settings are correct and that CD/DVD drive is set as the first boot device on the Boot menu.
6. Ensure all cables and jumpers on the HDD and ODD are set correctly.
7. Remove any recently added hardware and associated software.
8. Run the Windows Disk Defragmenter. For more information see Windows Help and Support.
9. Run Windows Check Disk by entering **chkdsk /r** from a command prompt. For more information see Windows Help and Support.
10. Restore system and file settings from a known good date using **System Restore**.

    If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
11. Replace the HDD. See “Disassembly Process” on page 40.

ODD Failure

If the **ODD** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



ODD Not Operating Correctly

If the **ODD** exhibits any of the following symptoms it may be faulty:

- Audio CDs do not play when loaded
- DVDs do not play when loaded
- Blank discs do not burn correctly
- DVD or CD play breaks up or jumps
- Optical drive not found or not active:
  - Not shown in My Computer or the BIOS setup
  - LED does not flash when the computer starts up
  - The tray does not eject
- Access failure screen displays
- The ODD is noisy

Perform the following general solutions one at a time to correct the problem.

1. Reboot the computer and retry the operation.
2. Try an alternate disc.
3. Navigate to **Start**→ **Computer**. Check that the ODD device is displayed in the **Devices with Removable Storage** panel.
4. Navigate to **Start**→ **Control Panel**→ **System and Maintenance**→ **System**→ **Device Manager**.

a. Double-click **IDE ATA/ATAPI controllers**. If a device displays a down arrow, right-click on the device and click **Enable**.

b. Double-click **DVD/CD-ROM drives**. If the device displays a down arrow, right-click on the device and click **Enable**.

c. Check that there are no yellow exclamation marks against the items in **IDE ATA/ATAPI controllers**. If a device has an exclamation mark, right-click on the device and uninstall and reinstall the driver.

d. Check that there are no yellow exclamation marks against the items in **DVD/CD-ROM drives**. If a device has an exclamation mark, right-click on the device and uninstall and reinstall the driver.

e. If the exclamation marker is not removed from the item in the lists, try removing any recently installed software and retrying the operation.

Discs Do Not Play

If discs do not play when inserted in the drive, perform the following actions one at a time to correct the problem.

1. Check that the disc is correctly seated in the drive tray and that the label on the disc is visible.
2. Check that the media is clean and scratch free.
3. Try an alternate disc in the drive.
4. Ensure that **AutoPlay** is enabled:
   a. Navigate to **Start**→ **Control Panel**→ **Hardware and Sound**→ **AutoPlay**.
   b. Select **Use AutoPlay for all media and devices**.
   c. In the Audio CD and DVD Movie fields, select the desired player from the drop down menu.
5. Check that the Regional Code is correct for the selected media:

IMPORTANT: Region can only be changed a limited number of times. After Changes remaining reaches zero, the region cannot be changed even Windows is reinstalled or the drive is moved to another computer.

   a. Navigate to **Start**→ **Control Panel**→ **System and Maintenance**→ **System**→ **Device Manager**.
   b. Double-click **DVD/CD-ROM drives**.
   c. Right-click **DVD drive** and click **Properties**, then click the **DVD Region** tab.
   d. Select the region suitable for the media inserted in the drive.

Discs Do Not Burn Properly

If discs can not be burned, perform the following actions one at a time to correct the problem.

1. Ensure that the default drive is record enabled:
   a. Navigate to **Start**→ **Computer** and right-click the writable ODD icon. Click **Properties**.
   b. Select the **Recording** tab. In the **Desktop disc recording** panel, select the writable ODD from the drop down list.
   c. Click **OK**.
2. Ensure that the software used for burning discs is the factory default. If using different software, refer to the software's user manual.

Playback is Choppy

If playback is choppy or jumps, perform the following actions one at a time to correct the problem.

1. Check that system resources are not running low:
   a. Try closing some applications.
   b. Reboot and try the operation again.
2. Check that the ODD controller transfer mode is set to DMA:
   a. Navigate to **Start**→ **Control Panel**→ **System and Maintenance**→ **System**→ **Device Manager**.

b. Double-click **IDE ATA/ATAPI controllers**, then right-click ATA Device 0.

c. Click **Properties** and select the **Advanced Settings** tab. Ensure that the **Enable DMA** box is checked and click **OK**.

d. Repeat for the other ATA Devices shown if applicable.

Drive Not Detected

If Windows cannot detect the drive, perform the following actions one at a time to correct the problem.

1. Restart the computer and press F2 to enter the BIOS Utility.
2. Check that the drive is detected in the **ATAPI Model Name** field on the Information page.

   NOTE: Check that the entry is identical to one of the ODDs specified in “Hardware Specifications and Configurations” on page 15.
3. Turn off the power and remove the cover to inspect the connections to the ODD. See “Disassembly Process” on page 40.
   - a. Check for broken connectors on the drive, motherboard, and cables.
   - b. Check for bent or broken pins on the drive, motherboard, and cable connections.
   - c. Try an alternate cable, if available. If the drive works with the new cable, the original cable should be replaced.
4. Reseat the drive ensuring and all cables are connected correctly.
5. Replace the ODD. See “Disassembly Process” on page 40.

Drive Read Failure

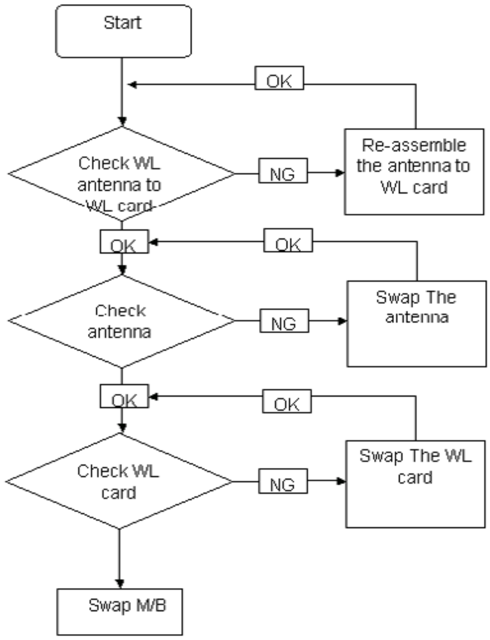
If discs cannot be read when inserted in the drive, perform the following actions one at a time to correct the problem.

1. Remove and clean the failed disc.
2. Retry reading the CD or DVD.
   - d. Test the drive using other discs.
   - e. Play a DVD movie
   - f. Listen to a music CD

   If the ODD works properly with alternate discs, the original disc is probably defective and should be replaced.
3. Turn off the power and remove the cover to inspect the connections to the ODD. See “Disassembly Process” on page 40.
   - a. Check for broken connectors on the drive, motherboard, and cables.
   - b. Check for bent or broken pins on the drive, motherboard, and cable connections.
   - c. Try an alternate cable, if available. If the drive works with the new cable, the original cable should be replaced.
4. Replace the ODD. See “Disassembly Process” on page 40.

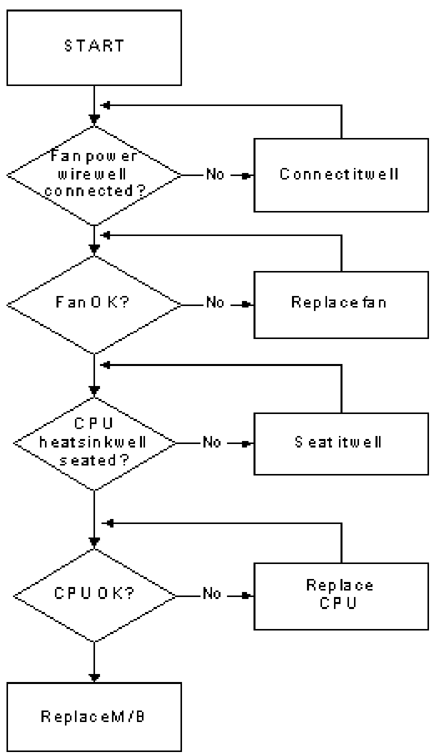
Wireless Function Failure

If the **WLAN** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Thermal Unit Failure

If the **Thermal Unit** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



External Mouse Failure

If an external **Mouse** fails, perform the following actions one at a time to correct the problem.

1. Try an alternative mouse.
2. If the mouse uses a wireless connection, insert new batteries and confirm there is a good connection. See the mouse user manual.
3. If the mouse uses a USB connection, try an alternate USB port.
4. Try an alternative program to verify mouse operation. Reinstall the program experiencing mouse failure.
5. Restart the computer.
6. Remove any recently added hardware and associated software.
7. Remove any recently added software and reboot.
8. Restore system and file settings from a known good date using **System Restore**.

   If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
9. Run the Event Viewer to check the events log for errors. For more information see Windows Help and Support.
10. Roll back the mouse driver to the previous version if updated recently.
11. Remove and reinstall the mouse driver.
12. Check the Device Manager to determine that:
    - The device is properly installed. There are no red Xs or yellow exclamation marks.
    - There are no device conflicts.
    - No hardware is listed under Other Devices.
13. If the Issue is still not resolved, see “Online Support Information” on page 187.

Other Failures

If the CRT Switch, Dock, LAN Port, external MIC or Speakers, PCI Express Card, 5-in-1 Card Reader or Volume Wheel fail, perform the following general steps to correct the problem. Do not replace a non-defective FRUs:

1. Check Drive whether is OK.
2. Check Test Fixture is ok.
3. Swap M/B to Try.

Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, do the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If any error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Follow these procedures to isolate the failing FRU (do not isolate non-defective FRU).

NOTE: Verify that all attached devices are supported by the computer.

NOTE: Verify that the power supply being used at the time of the failure is operating correctly. (See “Power On Issue” on page 120.):

1. Power-off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
    - Non-Acer devices
    - Printer, mouse, and other external devices
    - Battery pack
    - Hard disk drive
    - DIMM
    - CD-ROM/Diskette drive Module
    - PC Cards
4. Power-on the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failing FRU.
7. If the problem remains, replace the following FRU one at a time. Do not replace a non-defective FRU:
    - System board
    - LCD assembly

Post Codes

These tables describe the POST codes and descriptions during the POST.

Sec: NO_EVICTION_MODE_DEBUG EQU 1 (CommonPlatform\sec\Ia32\SecCore.inc)	
Code	**Description**
0xC2	MTRR setup
0xC3 Enab	le cache
0xC4 Est	ablish cache tags
0xC5	Enter NEM, Place the BSP in No Fill mode, set CR0.CD = 1, CR0.NW = 0.
0xCF Cach	e Init Finished

Memory: DEBUG_BIOS equ 1 (Chipset\Alviso\MemoryInitAsm\IA32\IMEMORY.INC)	
Code	**Description**
0xA0	First memory check point
0x01 En	able MCHBAR
0x02	Check for DRAM initialization interrupt and reset fail
0x03	Verify all DIMMs are DDR or DDR2 and unbuffered
0x04	Detect an improper warm reset and handle
0x05	Detect if ECC SO-DIMMs are present in the system
0x06	Verify all DIMMs are single or double sided and not asymmetric
0x07	Verify all DIMMs are x8 or x16 width
0x08	Find a common CAS latency between the DIMMS and the MCH
0x09	Determine the memory frequency and CAS latency to program
0x10	Determine the smallest common TRAS for all DIMMs
0x11	Determine the smallest common TRP for all DIMMs
0x12	Determine the smallest common TRCD for all DIMMs
0x13	Determine the smallest refresh period for all DIMMs
0x14	Verify burst length of 8 is supported by all DIMMs
0x15	Determine the smallest tWR supported by all DIMMs
0x16	Determine DIMM size parameters
0x17	Program the correct system memory frequency
0x18	Determine and set the mode of operation for the memory channels
0x19	Program clock crossing registers
0x20	Disable Fast Dispatch
0x21	Program the DRAM Row Attributes and DRAM Row Boundary registers
0x22	Program the DRAM Bank Architecture register
0x23	Program the DRAM Timing & and DRAM Control registers
0x24 Prog	ram ODT
0x25 Pe	rform steps required before memory init
0x26	Program the receive enable reference timing control register
	Program the DLL Timing Control Registers , RCOMP settings
0x27	Enable DRAM Channel I/O Buffers
0x28 Enable	all clocks on populated rows

Memory: DEBUG_BIOS equ 1 (Chipset\Alviso\MemoryInitAsm\IA32\IMEMORY.INC)	
Code	**Description**
0x29	Perform JEDEC memory initialization for all memory rows
0x30	Perform steps required after memory init
0x31 Prog	ram DRAM throttling and throttling event registers
0x32	Setup DRAM control register for normal operation and enable
0x33	Enable RCOMP
0x34	Clear DRAM initialization bit in the SB
0x35	Initialization Sequence Completed, program graphic clocks
0x43	Program Thermal Throttling

BDS & Specific action:	
Code	**Description**
0x00	Report the legacy boot is happening
0x12	Wake up the Aps
0x13 Initialize	SMM Private Data and relocate BSP SMBASE
0x21	PC init begin at the stage1
0x27	Report every memory range do the hard ware ECC init
0x28	Report status code of every memory range
0x50	Get the root bridge handle
0x51	Notify pci bus driver starts to program the resource
0x58	Reset the host controller
0x5A	IdeBus begin initialization
0x79	Report that the remote terminal is being disabled
0x7A	Report that the remote terminal is being enabled
0x90 Ke	yboard reset
0x91	USB Keyboard disable
0x92 Ke	yboard detection
0x93	Report that the usb keyboard is being enabled
0x94	Clear the keyboard buffer
0x95 Ini	t Keyboard
0x98 Mou	se reset
0x99 Mou	se disable
0x9A	Detect PS2 mouse
0x9B	Report that the mouse is being enabled
0xB8	Peripheral removable media reset(ex:IsaFloppy, USB device)
0xB9	Peripheral removable media disable
0xBB	Peripheral removable media enable
0xE4	Report Status Code here for DXE_ENTRY_POINT once it is available
0xF8	Report that ExitBootServices() has been called
0xF9	Runtime driver set virtual address map

Each PEIM entry point used in 80_PORT	
Code	**Description**
0x00	
0x01	PEI_EVENT_LOG
0xA1	PEI_OEM _SERVICE
0xA2	PEI_SIO_INIT
0xA3	PEI_MONO_ST ATUS_CODE
0xA4	PEI_CPU_IO_PCI_CFG
0x06	PEI_CPU_ IO
0x07	PEI_PCI_CF G
0xA5	PEI_CPU_PE IM
0xA6	PEI_PLA TFORM_STAGE1
0xA7	PEI_V ARIABLE
0xA8 0x0C	PEI_SB_INIT PEI_CAPSULE
0xAA	PEI_PLA TFORM_STAGE2
0xAC	PEI_SB_SMBUS_ARP_DISABLED
0x0F	PEI_HOST_T O_SYSTEM
0x40	PEI_MEMOR Y_INIT
0x41	PEI_S3_ RESUME
0xAD	PEI_CLOCK_GEN
0xAB	PEI_OP_PRESENCE
0xAE	PEI_FIND_FV
0x16	PEI_H2 O_DEBUG_IO
0x17	PEI_H2 O_DEBUG_COMM
0x16~0x1F	PEI_RESERVED
0x20~0x2E	PEI_OEM_DEFINED
0xAF	PEI_DXE_IPL

Each Driver entry point used in 80_PORT	
Code	**Description**
0x30	RESER VED
0xB6	DXE_CRC32_SECTION_E XTRACT
0xB8	SCRIP T_SAVE
0xB9	ACPI_S3_SA VE
0xBA	SMA RT_TIMER
0xBB	JPEG_DE CODER
0xBC	PCX_DECODER
0xBE	HT_CPU / MP_CPU
0xBF	LEGAC Y_METRONOME
0xC0	FT WLITE

Each Driver entry point used in 80_PORT	
Code	**Description**
0xC1	RUN_ RIME
0xC2	MONOT ONIC_COUNTER
0xC3	W ATCH_DOG_TIMER
0xC4	SECURITY_STUB
0xC5	DXE_CPU_ IO
0xC6	CF9_RESET
0xC7	PC_R TC
0xC8	ST ATUS_CODE
0xC9	VARIABLE
	EMU_VARIABLE
0xD9	DXE_CHIPSET_INIT
0x45	DXE_ALER T_FORMAT
0xD6	PCI_HOST_BRIDGE
0xD7	PCI_EXPRESS
0xD5	DXE_SB_INIT
0xDA	ID E_CONTROLLER
0xDB	SA TA_CONTROLLER
0xDD	SB_SM_BUS
0xE7	ISA_ACPI_DRIVER
0xE8	ISA_BUS
0xE9	ISA_SE RIAL
0xED	BUS_PCI_UNDI
0xEC	PCI_BUS
0xF6	BO OT_PRIORITY
0xF7	FVB_SER VICE
0xF8	ACPI_PLA TFORM
0xFB	PCI_HOT_PLUG
0xFC	DXE_PLA TFORM
0xFD	PL ATFORM_IDE
0x97	SMBIOS
0x98	MEMOR Y_SUB_CLASS
0x99	MISC_ SUB_CLASS
0x82	CON_PLA TFORM
0x83	SA VE_MEMORY_CONFIG
0x84	ACPI_SUPPOR T
0x85	CON_SPLITTER_UGA_VGA / CON_SPLITTER
0x88	VGA_CLASS
0x89	DA TA_HUB
0x60	DISK_ IO
0x8B	MEMOR Y_TEST
0x62	CRISIS_ RECOVERY
0x8D	LEGAC Y_8259

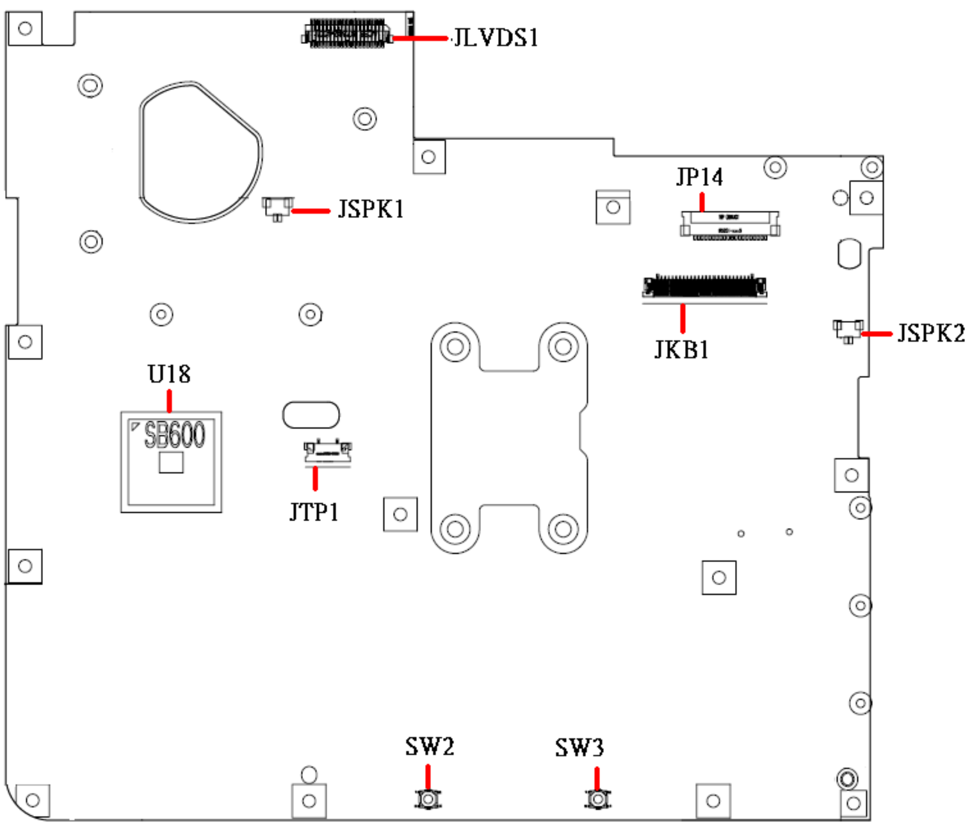
Each Driver entry point used in 80_PORT	
Code	**Description**
0x8E LEGAC	Y_REGION
0x8F LEGAC	Y_INTERRUPT
0x70 BIOS_KEYBOARD	
0x71 BIOS_VEDIO	
0x72 MONITER	_KEY
0x73 LEGAC	Y_BIOS
0x75 LEGAC	Y_BIOS_PLATFORM
0x76 PCI_PLA	TFORM
0x6C ISA_FLOOPY	
0x6D PS2_MOUSE	
0x6E USB_BOT	
0x6F USB_CBI0	
0x74 USB_MOU	SE
0xFA SETUP_	UTILITY
0x90 FW	_BLOCK_SERVICE
0x78 SMM_	USB_LEGACY
0x86 GR	APHICS_CONSOLE
0x87 TERMINAL	
0x8A DA	TA_HUB_STD_ERR
0x7C F	AT
0x7D P	ARTITION
0x7E ENGL	ISH
0x7F FR	ENCH
0x9E HII_DA	TABASE
0x9F OEM_SET	UP_BROWSER
0x8C O	EM_BADGING_SUPPORT
0xF9 SETUP_M	OUSE
0x72	MONITOR_KEY
0xBD	PLATFORM_BDS
0x8D RESER	VED
0x8E RESER	VED
0x8F RESER	VED
0xA0 DXE_H2O_DE	BUG_IO
0xB3 DXE_TPM	_TCG
0xB4 DXE_TPM	_PHYSICAL_PRESENCE
0xB7 DXE_OEM	_SERVICE
0x9B DXE_	SECURITY_HDD_PASSWORD_SERVICE
0xA9 DXE_LAN_	IDER_CONTROLLER
0x9C DXE_	SECURITY_SYSTEM_PASSWORD_SERVICE
0x9D	DXE_ SECURITY_ PASSWORD_CONSOLE
0xCB DXE_	DATA_HUB_RECORD_POLICY
0xB5 DXE_TPM	_DRIVER

Each Driver entry point used in 80_PORT	
Code	**Description**
0x11 CHINESE	
0xB0 JAP	ANESE
0xB1 DXE_UNICODE_COLLACTION	

Each SmmDriver entry point used in 80_PORT	
Code	**Description**
0xD4	SMM_ACCESS
0xDE SMM_	CONTROL
0xCC SMM	_BASE
0xD2 SMM_	RUNTIME
0xDF SB_SMM_	DISPATCH
0xD0 SMM_	THUNK
0xCA SMM	_ACPI_SW_CHILD
0xFE SMM	_PLATFORM
0xD8 SMM_	GMCH_MBI
0x90 SMM_	FW_BLOCK_SERVICE
0x91	SMM_VARIABLE
0x92 SMM_	IHISI
0x93 SMM_	INT15_MICROCODE
0x94 SMM_	PNP
0x95 SMM_	INIT_PPM
0xD3 SMM	_OEM_SERVICE

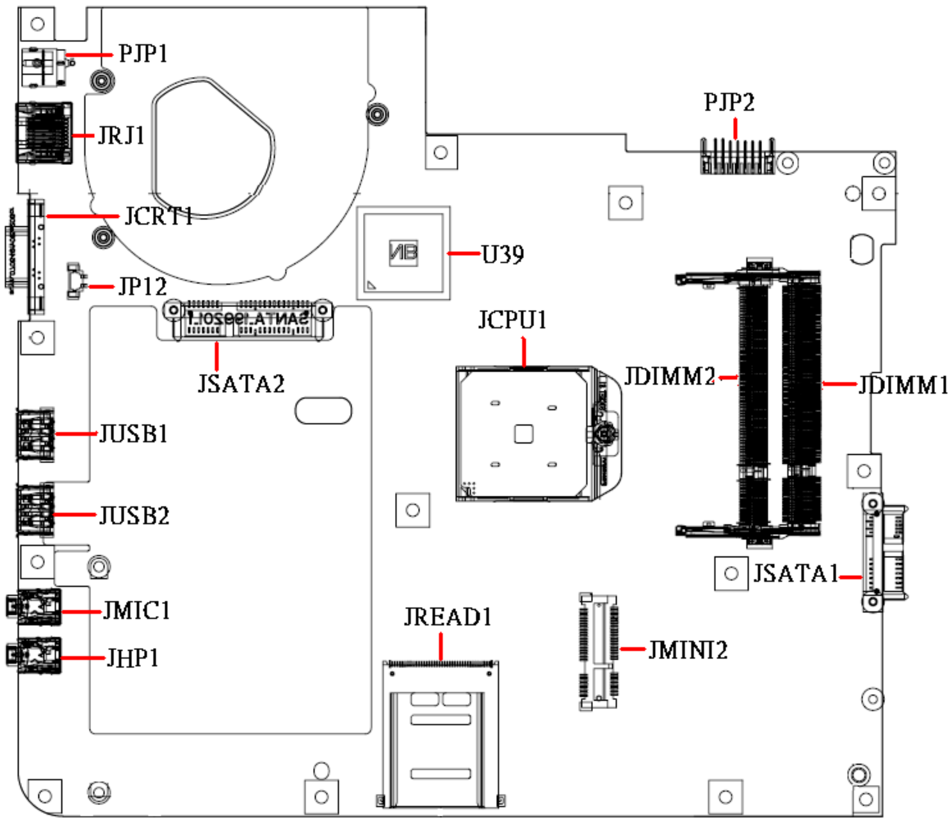
Jumper and Connector Locations

Top View



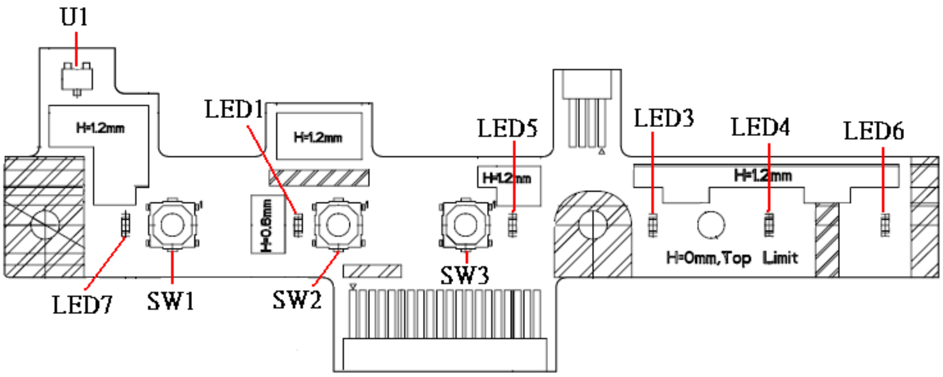
Item	Description
JLVDS1	LCD Connector
JP14	Power/B Connector
JSPK1	Speaker(Left) Connector
JSPK2	Speaker(Right) Connector
JKB1	Internal Keyboard Connector
JTP1	Touch Pad Connector
U18	South Bridge
SW2	Touch pad (Left) Button
SW3	Touch pad (Right) Button

Bottom View



ITEM	DESCRIPTION
PJP1	AC-IN Connector
JRJ1	RJ45 Connector
JCRT1	CRT Connector
JP12	Fan Connector
JUSB1	USB Connector
JUSB2	USB Connector
JMIC1	MIC-In Jack
JHP1	Head-Phone Jack
JSATA2	HDD Connector
U39	North Bridge
JCPU1	CPU Socket
JREAD1	Card Reader Socket
PJP2	Battery Connector
JDIMM2	Memory DIMM2 Connector
JDIMM1	Memory DIMM1 Connector
JSATA1	ODD Connector
JMINI2	Wireless Card Connector

Power Board



ITEM	DESCRIPTION
U1	Lid Switch
SW1	TP Lock Button
SW2	ON/OFF Button
SW3	Wireless Button
LED1	ON/OFF LED
LED3	Media LED
LED4	Num LED
LED5	Wireless LED
LED6	Caps LED
LED7	TP Lock LED

Clearing Password Check and BIOS Recovery

This section provides you with the standard operating procedures of clearing password and BIOS recovery for Acer Aspire 5241 Series. The machine provides one Hardware Open Gap on main board for clearing password check, and one Hotkey for enabling BIOS Recovery.

Clearing Password Check

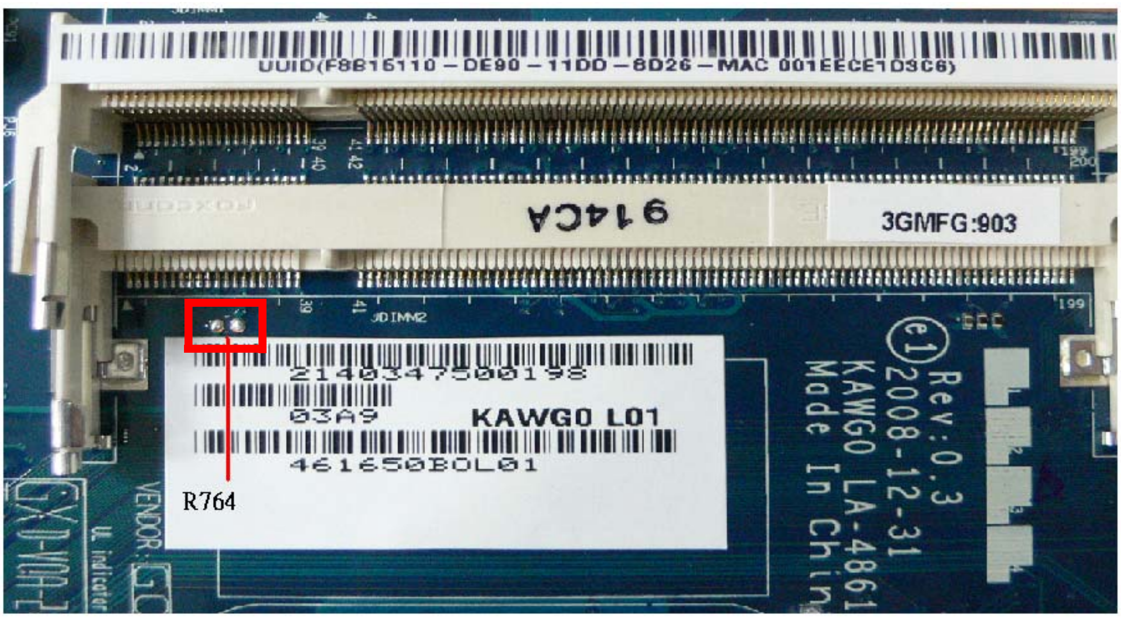
Steps for Clearing BIOS Password Check

If users set BIOS Password (Supervisor Password and/or User Password) for a security reason, BIOS will ask the password during systems POST or when systems enter to BIOS Setup menu. However, once it is necessary to bypass the password check, users need to short the HW Gap to clear the password by the following steps:

1. Power Off the system, and remove HDD, AC and Battery from the machine.
2. Disconnect the RTC Battery cable and locate the J1 jumper.
3. Use an electric conductivity tool to short the two points of the HW Gap.
4. Plug in AC, keep the short condition on the HW Gap, and press Power Button to power on the system till BIOS POST finish. Then remove the tool from the HW Gap.
5. Restart system. Press **F2** key to enter BIOS Setup menu.
6. If there is no Password request, BIOS Password is cleared. Otherwise, please follow the steps and try again.

NOTE: These steps are only for clearing BIOS Password (Supervisor Password and User Password).

Clear CMOS Jumper



Item	Description	Location
J1	Clear CMOS Jumper	Memory Bay - under DIMM modules

BIOS Recovery by Crisis Disk

BIOS Recovery Boot Block:

BIOS Recovery Boot Block is a special block of BIOS. It is used to boot up the system with minimum BIOS initialization. Users can enable this feature to restore the BIOS firmware to a successful one once the previous BIOS flashing process failed.

BIOS Recovery Hotkey:

The system provides a function hotkey: **Fn+Esc**, for enable BIOS Recovery process when system is powered on during BIOS POST. To use this function, it is strongly recommended to have the AC adapter and Battery present. If this function is enabled, the system will force the BIOS to enter a special BIOS block, called Boot Block.

Steps for BIOS Recovery from USB Storage:

Before doing this, prepare the Crisis USB key. The Crisis USB key could be made by executing the Crisis Disk program in another system with Windows XP OS.

Follow the steps below:

1. Copy the ***xxxxx.wph*** BIOS file into the Crisis folder which is included with the crisis program.
2. Rename the ***xxxxx.wph*** file to ***BIOS.wph***.
3. Plug in the USB disk.
4. Launch the ***wincris.exe*** program to create a USB Crisis Disk. Click **Start** to initiate the process.
5. Select the **Quick Format** option to format the disk and click **Start**. Follow the instructions on the screen to create the disk.

To use the Crisis USB key, do the following:

1. Plug USB storage into USB port.
2. Press **Fn + ESC** button then plug in AC power.

   The Power button flashes orange once.
3. Press **Power** button to initiate system CRISIS mode.

   When CRISIS is complete, the system auto restarts with a workable BIOS.
4. Update the latest version BIOS for this machine by regular BIOS flashing process.

FRU (Field Replaceable Unit) List

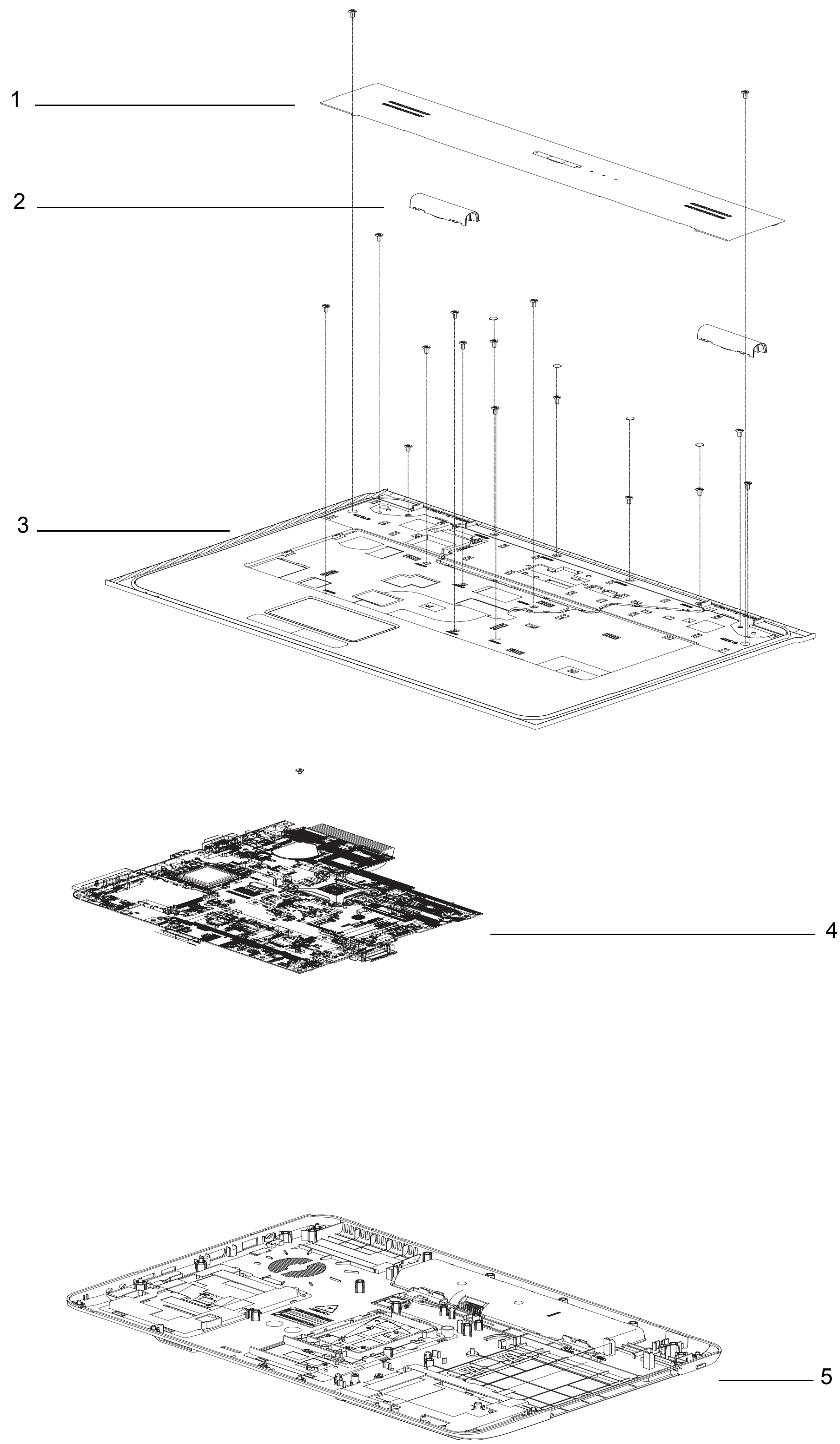
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Acer Aspire 5241 Series. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

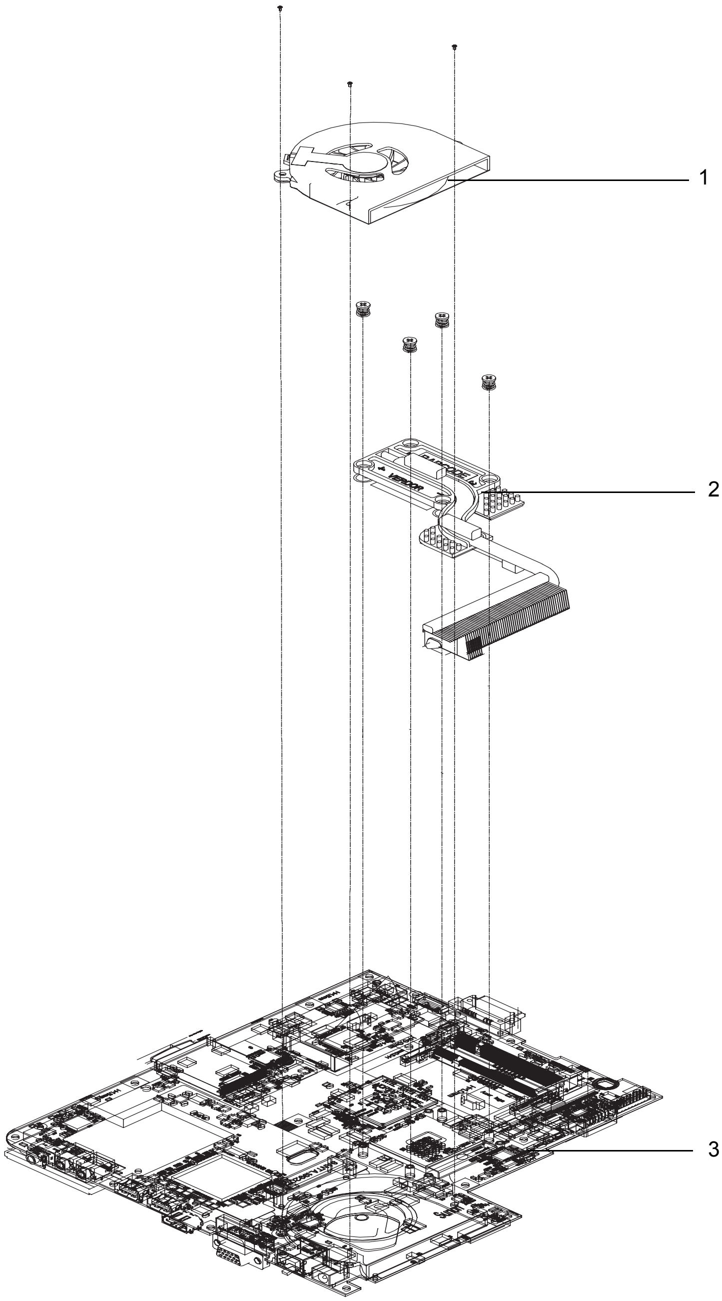
Acer Aspire 5241 Series Exploded Diagrams

Main Assembly



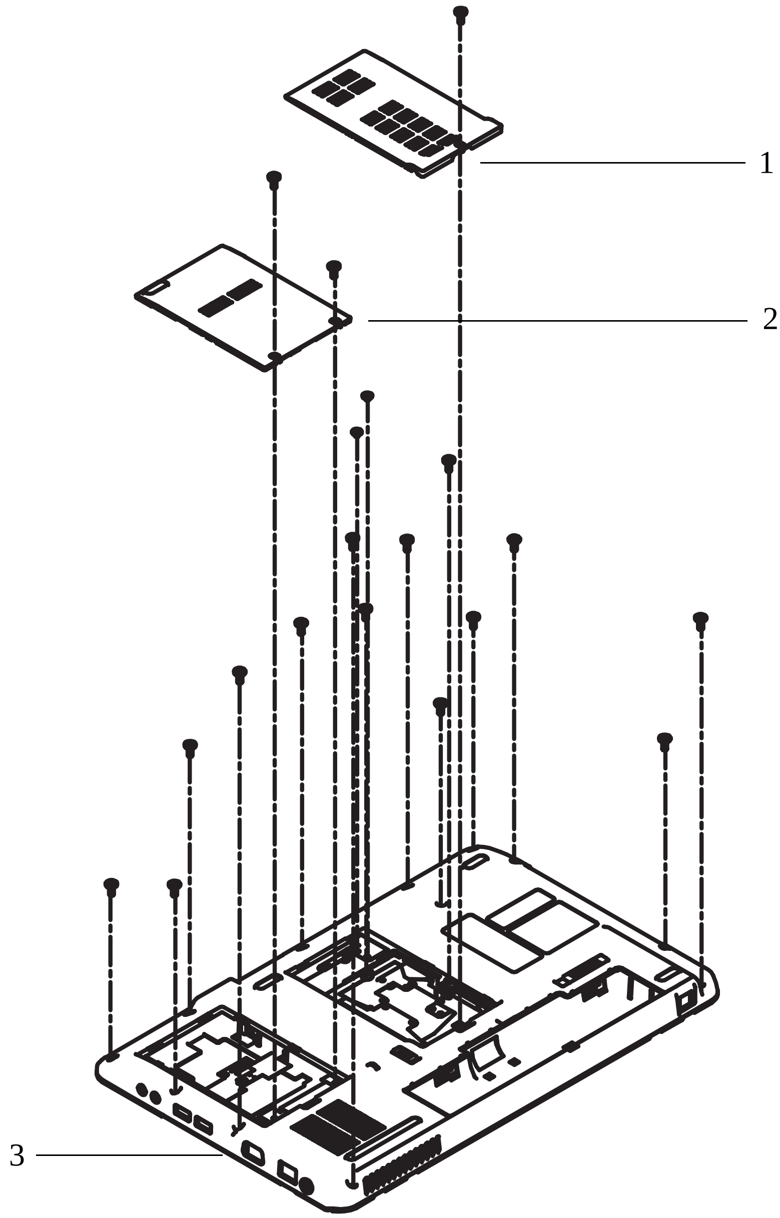
No.	Description	Acer P/N
1	Middle Cover Assy	60.N2802.003
2	Hinge Cap Assy	42.N2802.001
3	Upper Case Assy	60.N2802.001
4	Mainboard	MB.N6502.001
5	Lower Case	60.N2802.002

Base Assembly



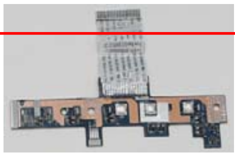
No.	Description	Acer P/N
1	Fan	23.N2802.001
2	Thermal Module	60.N6502.001
3	Mainboard	MB.N6502.001

Rear Assembly



No.	Description	Acer P/N
1	RAM Door	42.N2802.004
2	HDD Door	42.N2802.005
3	Lower Case	60.N2802.002

Acer Aspire 5241 Series FRU List

CATEGORY	Description	AcerPN
Board		
	POWER BOARD	55.N2802.001
	WLAN CARD-XB63	NI.23600.007
	WLAN CARD-BCM4312	NI.23600.029
Cable		
	TP FFC	50.N2802.001
	POWER CORD US 3 PIN	27.TAVV5.001
	POWER CORD EU 3 PIN	27.TAVV5.002
	POWER CORD AUS 3 PIN	27.TAVV5.003
	POWER CORD UK 3 PIN	27.TAVV5.004
	POWER CORD CHINA 3 PIN	27.TAVV5.005
	POWER CORD SWISS 3 PIN	27.TAVV5.006
	POWER CORD ITALIAN 3 PIN	27.TAVV5.007
	POWER CORD DENMARK 3 PIN	27.TAVV5.008
	POWER CORD JP 3 PIN	27.TAVV5.009
	POWER CORD SOUTH AFRICA 3 PIN	27.TAVV5.010
	POWER CORD KOERA 3 PIN	27.TAVV5.011
	POWER CORD ISRAEL 3 PIN	27.TAVV5.012
	POWER CORD INDIA 3 PIN	27.TAVV5.013
	POWER CORD TWN 3 PIN	27.TAVV5.014
	POWER CORD ARGENTINA 3 PIN	27.APV02.001
CPU/Processor		
	CPU AMD Athlon TF20 PGA 1.6G 512K 638 15W G2	KC.ATF02.200
	CPU AMD AthlonX2 TK42 1.6G 1M 638 20W G2	KC.ATK02.420
Case/Cover/Bracket Assembly		
	UPPER CASE ASSY	60.N2802.001

CATEGORY	Description	AcerPN
	LOWER CASE	60.N2802.002
	TP BRACKET	33.N2802.001
	MIDDLE COVER ASSY	60.N2802.003
	HINGE CAP ASSY	42.N2802.001
	UP CAP R	42.N2802.002
	UP CAP L	42.N2802.003
	RAM DOOR ASSY	42.N2802.004
	HDD DOOR ASSY	42.N2802.005

CATEGORY	Description	AcerPN
HDD		
	HDD SEAGATE 2.5" 5400rpm 160GB ST9160310AS Crockett SATA LF F/W:0303	KH.16001.034
	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J	KH.16004.006
	HDD HGST 2.5" 5400rpm 160GB HTS543216L9A300 Falcon-B SATA LF F/W:C40C	KH.16007.019
	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCTO ML160 SATA LF F/W:11.01A11	KH.16008.022
	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1	KH.25001.016
	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J	KH.25004.003
	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F	KH.25007.015
	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11	KH.25008.021
	HDD SEAGATE 2.5" 5400rpm 320GB ST9320320AS Crockett SATA LF F/W:0303	KH.32001.008
	HDD TOSHIBA 2.5" 5400rpm 320GB MK3255GSX Libra SATA LF F/W:FG011J	KH.32004.002
	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W: C60F	KH.32007.007
	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11	KH.32008.013
	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/W:0001SDM1	KH.50001.011
	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22ZAT0 ML250 SATA LF F/W:01.01A01	KH.50008.013
	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F	KH.50007.009
	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F	KH.16007.024
	HDD BRACKET ASSY	33.N2802.002
ODD		
	DVD SUPER MULTI DRIVE MODULE	6M.N2802.003
	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633B LF W/O bezel SATA	KU.00801.030
	ODD PANASONIC Super-Multi DRIVE 12.7mm Tray DL 8X UJ880A LF W/O bezel SATA	KU.00807.064
	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT20N LF W/O bezel SATA	KU.0080D.040
	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7580S LF W/O bezel SATA	KU.0080E.017
	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A3S LF W/O bezel SATA	KU.0080F.004

CATEGORY	Description	AcerPN
	ODD BEZEL-SUPER MULTI	42.N2802.006
	ODD BRACKET	33.N2802.003
Keyboard		
	Keyboard EM-7T HM50/70 Internal 17 Standard 99KS Black US International	KB.I1700.438
	Keyboard EM-7T HM50/70 Internal 17 Standard 99KS Black Greek	KB.I1700.423
	Keyboard EM-7T HM50/70 Internal 17 Standard 99KS Black Arabic	KB.I1700.414
	Keyboard EM-7T HM50/70 Internal 17 Standard 99KS Black Russian	KB.I1700.430
	Keyboard EM-7T HM50/70 Internal 17 Standard 99KS Black Thailand	KB.I1700.435
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black UK	KB.I1700.437
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black German	KB.I1700.422
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Swiss/G	KB.I1700.434
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black CZ/SK	KB.I1700.417
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Belgium	KB.I1700.415
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Danish	KB.I1700.419
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Italian	KB.I1700.425
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black French	KB.I1700.421
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Hungarian	KB.I1700.424
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Norwegian	KB.I1700.428
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Portuguese	KB.I1700.429
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Spanish	KB.I1700.432
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Turkish	KB.I1700.436
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Sweden	KB.I1700.433
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black SLO/CRO	KB.I1700.431
	Keyboard EM-7T HM50/70 Internal 17 Standard 100KS Black Nordic	KB.I1700.427

CATEGORY	Description	AcerPN
LCD		
	ASSY LCD MODULE 15.6 IN. WXGA GLARE W/ ANTENNA*2, CCD 0.3M	6M.N2802.001
	LCD AUO 15.6" WXGA Glare B156XW01-V0 LF 220nit 8ms	LK.15605.001
	CCFL LCD AUO 15.6"W WXGA Glare B156XW01 V0 1A LF 220nit 8ms 500:1	LK.15605.002
	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1	LK.15606.001
	CCFL LCD LPL 15.6" WXGA Glare LP156WH1-TLA1 LF 220nit 8ms 400:1	LK.15608.001
	LCD CMO 15.6" WXGA Glare N156B3-L02 LF 220nit 8ms	LK.1560D.001
	LCD COVER	60.N2802.004
	ANTENNA-AUX	50.N2802.002
	ANTENNA-MAIN	50.N2802.003
	LCD BEZEL FOR W/CCD F	60.N2802.005
	LCD CABLE FOR W/CCD F	50.N2802.005
	LCD BRACKET R&L FOR LCD	33.N2802.004
	CAMERA 0.3	57.N2802.001
	INVERTER	19.N2802.001

CATEGORY	Description	AcerPN
	ASSY LCD MODULE 15.6 IN. WXGA GLARE W/O CCD	6M.N3202.001
	LCD AUO 15.6" WXGA Glare B156XW01-V0 LF 220nit 8ms	LK.15605.001
	CCFL LCD AUO 15.6"W WXGA Glare B156XW01 V0 1A LF 220nit 8ms 500:1	LK.15605.002
	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1	LK.15606.001
	CCFL LCD LPL 15.6" WXGA Glare LP156WH1-TLA1 LF 220nit 8ms 400:1	LK.15608.001
	LCD CMO 15.6" WXGA Glare N156B3-L02 LF 220nit 8ms	LK.1560D.001
	LCD COVER	60.N2802.004
	ANTENNA-AUX	50.N2802.002
	ANTENNA-MAIN	50.N2802.003
	ANTENNA-MAIN+MIMO	50.N2802.004
	LCD BEZEL FOR W/ CCD F	60.N2802.005
	LCD CABLE FOR W/ CCD F	50.N3202.001
	LCD BRACKET R&L FOR LCD	50.N2802.005
	INVERTER	19.N2802.001

CATEGORY	Description	AcerPN
	ASSY LCD MODULE 15.6 IN. WXGA GLARE W/ ANTENNA*2, W/O CCD	6M.N3202.001
	LCD AUO 15.6" WXGA Glare B156XW01-V0 LF 220nit 8ms	LK.15605.001
	CCFL LCD AUO 15.6"W WXGA Glare B156XW01 V0 1A LF 220nit 8ms 500:1	LK.15605.002
	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1	LK.15606.001
	CCFL LCD LPL 15.6" WXGA Glare LP156WH1-TLA1 LF 220nit 8ms 400:1	LK.15608.001
	LCD CMO 15.6" WXGA Glare N156B3-L02 LF 220nit 8ms	LK.1560D.001
	LCD COVER	60.N2802.004
	ANTENNA-AUX	50.N2802.002
	ANTENNA-MAIN	50.N2802.003
	ANTENNA-MAIN+MIMO	50.N2802.004
	LCD BEZEL FOR W/O CCD F	60.N3202.001
	LED CABLE FOR W/O CCD F	50.N3202.001
	LCD BRACKET R&L FOR LCD	33.N2802.004
	CAMERA 0.3	57.N2802.001

CATEGORY	Description	AcerPN
	ASSY LED MODULE 15.6 IN. WXGA GLARE W/ ANTENNA*3 W/O CCD	6M.N5502.001
	LCD AUO 15.6" WXGA Glare B156XW01-V0 LF 220nit 8ms	LK.15605.001
	CCFL LCD AUO 15.6"W WXGA Glare B156XW01 V0 1A LF 220nit 8ms 500:1	LK.15605.002
	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1	LK.15606.001
	CCFL LCD LPL 15.6" WXGA Glare LP156WH1-TLA1 LF 220nit 8ms 400:1	LK.15608.001
	LCD CMO 15.6" WXGA Glare N156B3-L02 LF 220nit 8ms	LK.1560D.001
	LCD COVER	60.N2802.004
	ANTENNA-AUX	50.N2802.002
	ANTENNA-MAIN	50.N2802.003
	ANTENNA-MAIN+MIMO	50.N2802.004
	LCD BEZEL FOR W/O CCD F	60.N3202.001
	LED CABLE FOR W/O CCD F	50.N3202.002
	LCD BRACKET R&L FOR LCD	33.N2802.005
Mainboard		
	Mainboard E627 ATI RS780 SB710 8132 V1.0 LF	MB.N6502.001
Memory		

CATEGORY	Description	AcerPN
	Memory NANYA SO-DIMM DDRII 667 1GB NT1GT64UH8D0FN-3C LF 64*16 0.07um	KN.1GB03.026
	Memory MICRON SO-DIMM DDRII 667 1GB MT8HTF12864HDY-667G1 LF 64*16 0.065um	KN.1GB04.010
	Memory ELPIDA SO-DIMM DDRII 667 1GB EBE11UE6ACUA-6E-E LF 64*16 0.065um	KN.1GB09.008
	Memory SAMSUNG SO-DIMM DDRII 667 1GB M470T2864EH3-CE6 LF 64*16 0.055um	KN.1GB0B.027
	Memory HYNIX SO-DIMM DDRII 667 1GB HYMP112S64CP6-Y5 LF	KN.1GB0G.012
	Memory HYNIX SO-DIMM DDRII 667 1GB HMP112S6EFR6C-Y5 LF 64*16 0.055um	KN.1GB0G.022
	Memory NANYA SO-DIMM DDRII 667 2GB NT2GT64U8HD0BN-3C LF 128*8 0.07um	KN.2GB03.011
	Memory MICRON SO-DIMM DDRII 667 2GB MT16HTF25664HY-667G1 LF 128*8 0.065um	KN.2GB04.010
	Memory ELPIDA SO-DIMM DDRII 667 2GB EBE21UE8ACUA-6E-E LF 128*8 0.07um	KN.2GB09.001
	Memory SAMSUNG SO-DIMM DDRII 667 2GB M470T5663EH3-CE6 LF 128*8 0.055um	KN.2GB0B.011
	Memory HYNIX SO-DIMM DDRII 667 2GB HYMP125S64CP8-Y5 LF	KN.2GB0G.004
	Memory HYNIX SO-DIMM DDRII 667 2GB HMP125S6EFR8C-Y5 LF 128*8 0.055um	KN.2GB0G.012
Heatsink		
	THERMAL MODULE-AMD	60.N6502.001
	FAN	23.N2802.001
Speaker		
	SPEAKER R	23.N2802.002
	SPEAKER L	23.N2802.003
Miscellaneous		
	NAME PLATE-EME627	40.N6502.001
	NAME PLATE-EME427	40.N6502.002

Model Definition and Configuration

Aspire 5241

RO	Country	Acer Part No	Description
WW	WW	S2.PQP02.001	AS5241-102G16Mn W7HP64AWW1 MC UMA512Cbs_2 2*1G/160/6L2.2/5R/ CB_bgn_0.3D_HG_ES62
WW	WW	S2.PQQ02.001	AS5241-102G16Mn W7HP64AWW1 MC UMA512bs_2 2*1G/160/6L2.2/5R/ CB_bgn_HG_ES62

CPU	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
SMPM100	UMA	N	SO1GBII6	SO1GBII6	N160GB5.4KS
SMPM100	UMA	N	SO1GBII6	SO1GBII6	N160GB5.4KS

Aspire 5541

RO	Country	Acer Part No	Description
AAP	Australia/New Zealand	LX.PQC02.003	AS5541G-304G64Mn W7HP64ATAU1 MC M92XT512Cbs_2 2*2G/640/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AAP	Australia/New Zealand	LX.PQC02.002	AS5541G-304G50Mn W7HP64ATAU1 MC M92XT512Cbs_2 2*2G/500_L/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AAP	Australia/New Zealand	LX.PQC02.001	AS5541G-304G32Mn W7HP64ATAU1 MC M92XT512Cbs_2 2*2G/320/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
WW	WW	S2.PQC02.002	AS5541G-504G32Mn W7HP64AWW1 MC M92XT512Cbs_2 2*2G/320/6L2.2/5R/ CB_bgn_0.3D_HG_ES62
WW	WW	S2.PQC02.001	AS5541G-302G16Mn W7HP64AWW1 MC M92XT512Cbs_2 2*1G/160/6L2.2/5R/ CB_bgn_0.3D_HG_ES62
EME A	Russia	LX.PQD01.001	AS5541G-303G25Mi W7HB64RUATRU1 MC M92XT512bs_2 2G+1G/250/6L2.2/5R/ CB_bg_HG_RU11
WW	WW	S2.PQD02.001	AS5541G-302G16Mn W7HP64AWW1 MC M92XT512bs_2 2*1G/160/6L2.2/5R/ CB_bgn_HG_ES62
PA	ACLA-Portuguese	LX.PQN0C.002	AS5541-302G25Mn LINPUSAXC2 UMACbs_2 2*1G/ 250/6L2.2/5R/CB_bgn_0.3D_HG_EN62
EME A	Turkey	LX.PQN01.001	AS5541-302G25Mn EM W7HB64EMATTR1 MC UMACbs_2 1*2G/250/6L2.2/5R/ CB_bgn_0.3D_HG_TR31
EME A	Belgium	LX.PQN02.029	AS5541-304G50Mn W7HP64ATBE1 MC UMACbs_2 2*2G/500_L/6L2.2/5R/CB_bgn_0.3D_HG_NL11
EME A	Holland	LX.PQN02.028	AS5541-304G50Mn W7HP64ATNL1 MC UMACbs_2 2*2G/500_L/6L2.2/5R/CB_bgn_0.3D_HG_NL11
EME A	Luxembourg	LX.PQN02.027	AS5541-304G50Mn W7HP64ATLU3 MC UMACbs_2 2*2G/500_L/6L2.2/5R/CB_bgn_0.3D_HG_IT41
EME A	Ukraine	LX.PQN0C.001	AS5541-302G32Mn LINPUSAUK1 UMACbs_2 2*1G/ 320/6L2.2/5R/CB_bgn_0.3D_HG_EN71
EME A	Germany	LX.PQN02.001	AS5541-304G32Mn W7HP64ATDE1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_DE11
EME A	Czech	LX.PQN02.026	AS5541-302G25Mn W7HP64ATCZ2 MC UMACbs_2 1*2G/250/6L2.2/5R/CB_bgn_0.3D_HG_SK11
WW	WW	S2.PQN02.002	AS5541-324G25Mn W7HP64AWW1 MC UMACbs_2 2*2G/250/6L2.2/5R/CB_bgn_0.3D_HG_ES62
EME A	Poland	LX.PQN02.025	AS5541-304G32Mn W7HP64ATPL1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_PL11
EME A	Holland	LX.PQN02.024	AS5541-304G32Mn W7HP64ATNL1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_NL11
EME A	Belgium	LX.PQN02.023	AS5541-304G32Mn W7HP64ATBE1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_NL11
EME A	Switzerland	LX.PQN02.022	AS5541-304G32Mn W7HP64ATCH1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_IT41
EME A	Luxembourg	LX.PQN02.021	AS5541-304G32Mn W7HP64ATLU3 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_IT41

RO	Country	Acer Part No	Description
EMEA	Denmark	LX.PQN02.020	AS5541-304G32Mn W7HP64ATDK2 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_ENS1
EMEA	Eastern Europe	LX.PQN02.019	AS5541-304G32Mn W7HP64ATEU5 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_RO11
EMEA	Eastern Europe	LX.PQN02.018	AS5541-304G32Mn W7HP64ATEU5 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_PL71
EMEA	UK	LX.PQN02.017	AS5541-304G32Mn W7HP64ATGB1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_EN11
EMEA	Latvia	LX.PQN02.016	AS5541-304G32Mn W7HP64ATLV1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_RU22
EMEA	Hungary	LX.PQN02.015	AS5541-304G32Mn W7HP64ATHU1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_HU11
EMEA	Israel	LX.PQN02.014	AS5541-304G32Mn W7HP64ATIL1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_HE11
EMEA	Czech	LX.PQN02.013	AS5541-304G32Mn W7HP64ATCZ2 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_SK11
EMEA	Cyprus	LX.PQN02.012	AS5541-304G32Mn W7HP64ATCY1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_ES61
EMEA	Portugal	LX.PQN02.011	AS5541-304G32Mn W7HP64ATPT1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_PT11
EMEA	Eastern Europe	LX.PQN02.010	AS5541-304G32Mn W7HP64ATEU7 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_ENQ1
EMEA	Eastern Europe	LX.PQN02.009	AS5541-304G32Mn W7HP64ATEU4 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_SV21
EMEA	Italy	LX.PQN02.008	AS5541-304G32Mn W7HP64ATIT1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_IT11
EMEA	Spain	LX.PQN02.007	AS5541-304G32Mn W7HP64ATES1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_ES51
EMEA	Serbia/ Macedonia	LX.PQN02.006	AS5541-304G32Mn W7HP64ATCS1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_SL11
EMEA	Austria	LX.PQN02.005	AS5541-304G32Mn W7HP64ATAT1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_DE61
EMEA	Greece	LX.PQN02.004	AS5541-304G32Mn W7HP64ATGR1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_EL31
EMEA	Eastern Europe	LX.PQN02.003	AS5541-304G32Mn W7HP64ATEU7 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_SL11
EMEA	France	LX.PQN02.002	AS5541-304G32Mn W7HP64ATFR1 MC UMACbs_2 2*2G/320/6L2.2/5R/CB_bgn_0.3D_HG_FR21
WW	WW	S2.PQN02.001	AS5541-301G16Mn W7HP64AWW1 MC UMA512Cbs_2 1*1G/160/6L2.2/5R/ CB_bgn_0.3D_HG_ES62
WW	WW	S2.PQE02.001	AS5541-301G16Mn W7HP64AWW1 MC UMA512bs_2 1*1G/160/6L2.2/5R/ CB_bgn_HG_ES62

CPU	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
AAM300	M92S XT	512M-DDR2(64*16*4)	SO2GBII6	SO2GBII6	N640GB5.4KS

CPU	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
AAM300	M92S XT	512M-DDR2(64*16*4)	SO2GBII6	SO2GBII6	N500GB5.4KS
AAM300	M92S XT	512M-DDR2(64*16*4)	SO2GBII6	SO2GBII6	N320GB5.4KS
ATM500	M92S XT	512M-DDR2(64*16*4)	SO2GBII8	SO2GBII8	N320GB5.4KS
AAM300	M92S XT	512M-DDR2(64*16*4)	SO1GBII6	SO1GBII6	N160GB5.4KS
AAM300	M92S XT	512M-DDR2(64*16*4)	SO2GBII6	SO1GBII6	N250GB5.4KS
AAM300	M92S XT	512M-DDR2(64*16*4)	SO1GBII6	SO1GBII6	N160GB5.4KS
AAM300	UMA	N	SO1GBII6	SO1GBII6	N250GB5.4KS
AAM300	UMA	N	SO2GBII6	N	N250GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N500GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N500GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N500GB5.4KS
AAM300	UMA	N	SO1GBII6	SO1GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	N	N250GB5.4KS
AAM320	UMA	N	SO2GBII6	SO2GBII6	N250GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS

CPU	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
AAM300	UMA	N	SO2GBII6	SO2GBII6	N320GB5.4KS
AAM300	UMA	N	SO1GBII6	N	N160GB5.4KS
AAM300	UMA	N	SO1GBII6	N	N160GB5.4KS

Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® 7 with backwards compatibility to Windows XP.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the Acer Aspire 5241 Series Compatibility Test Report released by the Acer Mobile System Testing Department.

Microsoft® Windows® 7 Environment Test

BRAND	Type	Description
A cover		
Quanta Wistron	Normal wi IMR	Normal wi IMR
	Normal wi IMR	Normal wi IMR
	Normal wi IMR	Normal wi IMR
	Normal wi IMR	Normal wi IMR
	Normal wi IMR	Normal wi IMR
	Normal wi IMR	Normal wi IMR
Adapter		
DELTA	65W	Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65JH DB A, LV5 LED LF
	65W	Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65JH DB A, LV5 LED LF
	65W	Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65JH DB A, LV5 LED LF
	65W	Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65JH DB A, LV5 LED LF
	90W	Adapter DELTA 90W 19V 1.7x5.5x11 Blue ADP-90CD DB A, LV5 LED LF
	90W	Adapter DELTA 90W 19V 1.7x5.5x11 Blue ADP-90CD DB A, LV5 LED LF
HIPRO	65W	Adapter HIPRO 65W 19V 1.7x5.5x11 Yellow HP-A0652R3B 1LF, LV5 LED LF
	65W	Adapter HIPRO 65W 19V 1.7x5.5x11 Yellow HP-A0652R3B 1LF, LV5 LED LF
	65W	Adapter HIPRO 65W 19V 1.7x5.5x11 Yellow HP-A0652R3B 1LF, LV5 LED LF
	65W	Adapter HIPRO 65W 19V 1.7x5.5x11 Yellow HP-A0652R3B 1LF, LV5 LED LF
	90W	Adapter HIPRO 90W 19V 1.7x5.5x11 Blue HP-A0904A3 B1LF, LV5 LED LF
	90W	Adapter HIPRO 90W 19V 1.7x5.5x11 Blue HP-A0904A3 B1LF, LV5 LED LF
LITE-ON	65W	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-22AC LV5 LED LF
	65W	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-22AC LV5 LED LF
	65W	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-22AC LV5 LED LF
	65W	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-22AC LV5 LED LF
	90W	Adapter LITE-ON 90W 19V 1.7x5.5x11 Blue PA-1900-34AR, LV5 LED LF
	90W	Adapter LITE-ON 90W 19V 1.7x5.5x11 Blue PA-1900-34AR, LV5 LED LF

BRAND	Type	Description
Audio Codec		
Realtek	ALC272X	Realtek Audio Codec ALC272X
	ALC272X	Realtek Audio Codec ALC272X
	ALC272X	Realtek Audio Codec ALC272X
	ALC272X	Realtek Audio Codec ALC272X
	ALC272X	Realtek Audio Codec ALC272X
	ALC272X	Realtek Audio Codec ALC272X
B cover		
	Mirror	Mirror
	Mirror	Mirror
	Mirror	Mirror
	Mirror w/Camera	Mirror w/Camera
	Mirror w/Camera	Mirror w/Camera
	Mirror w/Camera	Mirror w/Camera
Battery		
PANASONIC	6CELL2.2	Battery PANASONIC AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON 2.2Ah(CG)
	6CELL2.2	Battery PANASONIC AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON 2.2Ah(CG)
	6CELL2.2	Battery PANASONIC AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON 2.2Ah(CG)
	6CELL2.2	Battery PANASONIC AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON 2.2Ah(CG)
	6CELL2.2	Battery PANASONIC AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON 2.2Ah(CG)
	6CELL2.2	Battery PANASONIC AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON 2.2Ah(CG)
SAMSUNG	6CELL2.2	Battery SAMSUNG AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON 2.2Ah(F)
	6CELL2.2	Battery SAMSUNG AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON 2.2Ah(F)
	6CELL2.2	Battery SAMSUNG AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON 2.2Ah(F)
	6CELL2.2	Battery SAMSUNG AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON 2.2Ah(F)
	6CELL2.2	Battery SAMSUNG AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON 2.2Ah(F)
	6CELL2.2	Battery SAMSUNG AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON 2.2Ah(F)

BRAND	Type	Description
SANYO	6CELL2.2	Battery SANYO AS-2009A Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON 2.2Ah(A)
	6CELL2.2	Battery SANYO AS-2009A Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON 2.2Ah(A)
	6CELL2.2	Battery SANYO AS-2009A Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON 2.2Ah(A)
	6CELL2.2	Battery SANYO AS-2009A Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON 2.2Ah(A)
	6CELL2.2	Battery SANYO AS-2009A Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON 2.2Ah(A)
	6CELL2.2	Battery SANYO AS-2009A Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON 2.2Ah(A)
SIMPLO	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON LGC 2.2Ah(S3)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON LGC 2.2Ah(S3)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON LGC 2.2Ah(S3)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON LGC 2.2Ah(S3)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON LGC 2.2Ah(S3)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON LGC 2.2Ah(S3)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON Panasonic 2.2Ah (CG)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON Panasonic 2.2Ah (CG)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON Panasonic 2.2Ah (CG)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON Panasonic 2.2Ah (CG)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON Panasonic 2.2Ah (CG)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON Panasonic 2.2Ah (CG)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON SDI 2.2Ah(F)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON SDI 2.2Ah(F)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON SDI 2.2Ah(F)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON SDI 2.2Ah(F)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON SDI 2.2Ah(F)
	6CELL2.2	Battery SIMPLO AS-2009A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON SDI 2.2Ah(F)

BRAND	Type	Description
SONY	6CELL2.2	Battery SONY AS-2009A Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON 2.2Ah(G6F)
	6CELL2.2	Battery SONY AS-2009A Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON 2.2Ah(G6F)
	6CELL2.2	Battery SONY AS-2009A Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON 2.2Ah(G6F)
	6CELL2.2	Battery SONY AS-2009A Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON 2.2Ah(G6F)
	6CELL2.2	Battery SONY AS-2009A Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON 2.2Ah(G6F)
	6CELL2.2	Battery SONY AS-2009A Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON 2.2Ah(G6F)
Camera		
Chicony	0.3M DV	Chicony 0.3M DV Calla_2
	0.3M DV	Chicony 0.3M DV Calla_2
	0.3M DV	Chicony 0.3M DV Calla_2
	0.3M DV	Chicony 0.3M DV Calla_2G
	0.3M DV	Chicony 0.3M DV Calla_2G
	0.3M DV	Chicony 0.3M DV Calla_2G
	0.3M DV	Chicony 0.3M DV Calla_2GA (CNF8046)
	0.3M DV	Chicony 0.3M DV Calla_2GA (CNF8046)
	0.3M DV	Chicony 0.3M DV Calla_2GA (CNF8046)
Suyin	0.3M DV	Suyin 0.3M DV Camellia_2
	0.3M DV	Suyin 0.3M DV Camellia_2
	0.3M DV	Suyin 0.3M DV Camellia_2
	0.3M DV	Suyin 0.3M DV Camellia_2G
	0.3M DV	Suyin 0.3M DV Camellia_2G
	0.3M DV	Suyin 0.3M DV Camellia_2G
Card Reader		
	5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
	5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
	5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
	5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
	5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
	5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD

BRAND	Type	Description
CPU		
AMD	AAM300	CPU AMD AthlonII M300 2.0G 1M 35W Caspian
	AAM300	CPU AMD AthlonII M300 2.0G 1M 35W Caspian
	AAM300	CPU AMD AthlonII M300 2.0G 1M 35W Caspian
	AAM320	CPU AMD AthlonII M320 2.1G 1M 35W Caspian
	AAM320	CPU AMD AthlonII M320 2.1G 1M 35W Caspian
	AAM320	CPU AMD AthlonII M320 2.1G 1M 35W Caspian
	SMPM100	CPU AMD SempronM M100 2.0G 512K 25W Caspian
	SMPM100	CPU AMD SempronM M100 2.0G 512K 25W Caspian
	SMPM100	CPU AMD SempronM M100 2.0G 512K 25W Caspian
	ATM500	CPU AMD TurionII M500 2.2G 1M 35W
	ATM500	CPU AMD TurionII M500 2.2G 1M 35W
	ATM500	CPU AMD TurionII M500 2.2G 1M 35W
	ATM520	CPU AMD TurionII M520 2.3G 1M 35W
	ATM520	CPU AMD TurionII M520 2.3G 1M 35W
	ATM520	CPU AMD TurionII M520 2.3G 1M 35W
HDD		
HGST	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm

BRAND	Type	Description
HGST	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm

BRAND	Type	Description
SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1
	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1
	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1
	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1
	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1
	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1
	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1
	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1
	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1
	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1
	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1
	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1
	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/W:0001SDM1
	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/W:0001SDM1
	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/W:0001SDM1
	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/W:0001SDM1
	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/W:0001SDM1
	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/W:0001SDM1
	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/W:0001SDM1
	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/W:0001SDM1
	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/W:0001SDM1
	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/W:0001SDM1
	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/W:0001SDM1
	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/W:0001SDM1

BRAND	Type	Description
TOSHIBA	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB Capricorn BS ,MK3265GSX SATA 8MB LF F/W:GJ001J

BRAND	Type	Description
TOSHIBA	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB Capricorn BS ,MK3265GSX SATA 8MB LF F/W:GJ001J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB Capricorn BS ,MK3265GSX SATA 8MB LF F/W:GJ001J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB Capricorn BS ,MK3265GSX SATA 8MB LF F/W:GJ001J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB Capricorn BS ,MK3265GSX SATA 8MB LF F/W:GJ001J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB Capricorn BS ,MK3265GSX SATA 8MB LF F/W:GJ001J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB MK3263GSX SATA 8MB 68P LF F/W:FG020J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB MK3263GSX SATA 8MB 68P LF F/W:FG020J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB MK3263GSX SATA 8MB 68P LF F/W:FG020J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB MK3263GSX SATA 8MB 68P LF F/W:FG020J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB MK3263GSX SATA 8MB 68P LF F/W:FG020J
	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB MK3263GSX SATA 8MB 68P LF F/W:FG020J
	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX,Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX,Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX,Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX,Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX,Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX,Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J
	N640GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 640GB MK6465GSX,Capricorn BS,320G/P SATA 8MB LF F/W:GJ001J
	N640GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 640GB MK6465GSX,Capricorn BS,320G/P SATA 8MB LF F/W:GJ001J
	N640GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 640GB MK6465GSX,Capricorn BS,320G/P SATA 8MB LF F/W:GJ001J
	N640GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 640GB MK6465GSX,Capricorn BS,320G/P SATA 8MB LF F/W:GJ001J
	N640GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 640GB MK6465GSX,Capricorn BS,320G/P SATA 8MB LF F/W:GJ001J
	N640GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 640GB MK6465GSX,Capricorn BS,320G/P SATA 8MB LF F/W:GJ001J

BRAND	Type	Description
WD	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCTO ML160 SATA LF F/W:11.01A11
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCTO ML160 SATA LF F/W:11.01A11
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCTO ML160 SATA LF F/W:11.01A11
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCTO ML160 SATA LF F/W:11.01A11
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCTO ML160 SATA LF F/W:11.01A11
	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCTO ML160 SATA LF F/W:11.01A11
	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.
	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.
	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.
	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.
	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.
	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22A23T0,ML320S,WD SATA 8MB LF F/W:01.01A01
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22A23T0,ML320S,WD SATA 8MB LF F/W:01.01A01
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22A23T0,ML320S,WD SATA 8MB LF F/W:01.01A01
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22A23T0,ML320S,WD SATA 8MB LF F/W:01.01A01
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22A23T0,ML320S,WD SATA 8MB LF F/W:01.01A01
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22A23T0,ML320S,WD SATA 8MB LF F/W:01.01A01
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11

BRAND	Type	Description
WD	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11
	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11
	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22A0RT0, ML320M,WD SATA 8MB LF F/W:01.01A01
	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22A0RT0, ML320M,WD SATA 8MB LF F/W:01.01A01
	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22A0RT0, ML320M,WD SATA 8MB LF F/W:01.01A01
	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22A0RT0, ML320M,WD SATA 8MB LF F/W:01.01A01
	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22A0RT0, ML320M,WD SATA 8MB LF F/W:01.01A01
	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22A0RT0, ML320M,WD SATA 8MB LF F/W:01.01A01
	N640GB5.4KS	HDD WD 2.5" 5400rpm 640GB WD6400BEVT-22A0RT0, ML320 SATA 8MB LF F/W:01.01A01
	N640GB5.4KS	HDD WD 2.5" 5400rpm 640GB WD6400BEVT-22A0RT0, ML320 SATA 8MB LF F/W:01.01A01
	N640GB5.4KS	HDD WD 2.5" 5400rpm 640GB WD6400BEVT-22A0RT0, ML320 SATA 8MB LF F/W:01.01A01
	N640GB5.4KS	HDD WD 2.5" 5400rpm 640GB WD6400BEVT-22A0RT0, ML320 SATA 8MB LF F/W:01.01A01
	N640GB5.4KS	HDD WD 2.5" 5400rpm 640GB WD6400BEVT-22A0RT0, ML320 SATA 8MB LF F/W:01.01A01
	N640GB5.4KS	HDD WD 2.5" 5400rpm 640GB WD6400BEVT-22A0RT0, ML320 SATA 8MB LF F/W:01.01A01
Keyboard		
ACER	EM-7Tv2	Keyboard ACER EM-7Tv2 HM51 Internal 17 Standard Black NONE
	EM-7Tv2	Keyboard ACER EM-7Tv2 HM51 Internal 17 Standard Black NONE
	EM-7Tv2	Keyboard ACER EM-7Tv2 HM51 Internal 17 Standard Black NONE
	EM-7Tv2	Keyboard ACER EM-7Tv2 HM51 Internal 17 Standard Black NONE
	EM-7Tv2	Keyboard ACER EM-7Tv2 HM51 Internal 17 Standard Black NONE
	EM-7Tv2	Keyboard ACER EM-7Tv2 HM51 Internal 17 Standard Black NONE

BRAND	Type	Description
LAN		
Atheros	AR8132L	Atheros AR8132L
	AR8132L	Atheros AR8132L
	AR8132L	Atheros AR8132L
	AR8132L	Atheros AR8132L
	AR8132L	Atheros AR8132L
	AR8132L	Atheros AR8132L
LCD		
AUO	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01 V0 1A LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01 V0 1A LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01 V0 1A LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01 V0 1A LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01 V0 1A LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01 V0 1A LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01-V2 LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01-V2 LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01-V2 LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01-V2 LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01-V2 LF 220nit 8ms 500:1
	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01-V2 LF 220nit 8ms 500:1
	N15.6WXGAG	LCD AUO 15.6" WXGA Glare B156XW01-V0 LF 220nit 8ms
	N15.6WXGAG	LCD AUO 15.6" WXGA Glare B156XW01-V0 LF 220nit 8ms
	N15.6WXGAG	LCD AUO 15.6" WXGA Glare B156XW01-V0 LF 220nit 8ms

BRAND	Type	Description
AUO	N15.6WXGAG	LCD AUO 15.6" WXGA Glare B156XW01-V0 LF 220nit 8ms
	N15.6WXGAG	LCD AUO 15.6" WXGA Glare B156XW01-V0 LF 220nit 8ms
	N15.6WXGAG	LCD AUO 15.6" WXGA Glare B156XW01-V0 LF 220nit 8ms
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V0 LF 220nit 8ms 500:1
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V0 LF 220nit 8ms 500:1
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V0 LF 220nit 8ms 500:1
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V0 LF 220nit 8ms 500:1
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V0 LF 220nit 8ms 500:1
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V0 LF 220nit 8ms 500:1
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V2 LF 200nit 8ms 500:1 (power saving)
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V2 LF 200nit 8ms 500:1 (power saving)
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V2 LF 200nit 8ms 500:1 (power saving)
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V2 LF 200nit 8ms 500:1 (power saving)
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V2 LF 200nit 8ms 500:1 (power saving)
	NLED15.6WXGA G	LED LCD AUO 15.6"W WXGA Glare B156XW02 V2 LF 200nit 8ms 500:1 (power saving)
CMO	N15.6WXGAG	LCD CMO 15.6" WXGA Glare N156B3-L02 LF 220nit 8ms
	N15.6WXGAG	LCD CMO 15.6" WXGA Glare N156B3-L02 LF 220nit 8ms
	N15.6WXGAG	LCD CMO 15.6" WXGA Glare N156B3-L02 LF 220nit 8ms
	N15.6WXGAG	LCD CMO 15.6" WXGA Glare N156B3-L02 LF 220nit 8ms
	N15.6WXGAG	LCD CMO 15.6" WXGA Glare N156B3-L02 LF 220nit 8ms
	N15.6WXGAG	LCD CMO 15.6" WXGA Glare N156B3-L02 LF 220nit 8ms

BRAND	Type	Description
LPL	N15.6WXGAG	CCFL LCD LPL 15.6" WXGA Glare LP156WH1-TLA1 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6" WXGA Glare LP156WH1-TLA1 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6" WXGA Glare LP156WH1-TLA1 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6" WXGA Glare LP156WH1-TLA1 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6" WXGA Glare LP156WH1-TLA1 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6" WXGA Glare LP156WH1-TLA1 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6"W WXGA Glare LP156WH1-TLA3 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6"W WXGA Glare LP156WH1-TLA3 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6"W WXGA Glare LP156WH1-TLA3 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6"W WXGA Glare LP156WH1-TLA3 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6"W WXGA Glare LP156WH1-TLA3 LF 220nit 8ms 400:1
	N15.6WXGAG	CCFL LCD LPL 15.6"W WXGA Glare LP156WH1-TLA3 LF 220nit 8ms 400:1
SAMSUNG	N15.6WXGAG	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1
	N15.6WXGAG	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1
	N15.6WXGAG	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1
	N15.6WXGAG	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1
	N15.6WXGAG	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1
	N15.6WXGAG	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1

BRAND	Type	Description
MEM		
HYNIX	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HMP112S6EFR6C-Y5 LF 64*16 0.055um
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HMP112S6EFR6C-Y5 LF 64*16 0.055um
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HMP112S6EFR6C-Y5 LF 64*16 0.055um
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HMP112S6EFR6C-Y5 LF 64*16 0.055um
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HMP112S6EFR6C-Y5 LF 64*16 0.055um
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HMP112S6EFR6C-Y5 LF 64*16 0.055um
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HYMP112S64CP6-Y5 LF
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HYMP112S64CP6-Y5 LF
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HYMP112S64CP6-Y5 LF
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HYMP112S64CP6-Y5 LF
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HYMP112S64CP6-Y5 LF
	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HYMP112S64CP6-Y5 LF
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HMP125S6EFR8C-Y5 LF 128*8 0.055um
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HMP125S6EFR8C-Y5 LF 128*8 0.055um
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HMP125S6EFR8C-Y5 LF 128*8 0.055um
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HMP125S6EFR8C-Y5 LF 128*8 0.055um
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HMP125S6EFR8C-Y5 LF 128*8 0.055um
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HMP125S6EFR8C-Y5 LF 128*8 0.055um
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HYMP125S64CP8-Y5 LF
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HYMP125S64CP8-Y5 LF
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HYMP125S64CP8-Y5 LF
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HYMP125S64CP8-Y5 LF
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HYMP125S64CP8-Y5 LF
	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HYMP125S64CP8-Y5 LF

BRAND	Type	Description
MICRON	SO1GBII6	Memory MICRON SO-DIMM DDRII 667 1GB MT8HTF12864HDY-667G1 LF 64*16 0.065um
	SO1GBII6	Memory MICRON SO-DIMM DDRII 667 1GB MT8HTF12864HDY-667G1 LF 64*16 0.065um
	SO1GBII6	Memory MICRON SO-DIMM DDRII 667 1GB MT8HTF12864HDY-667G1 LF 64*16 0.065um
	SO1GBII6	Memory MICRON SO-DIMM DDRII 667 1GB MT8HTF12864HDY-667G1 LF 64*16 0.065um
	SO1GBII6	Memory MICRON SO-DIMM DDRII 667 1GB MT8HTF12864HDY-667G1 LF 64*16 0.065um
	SO1GBII6	Memory MICRON SO-DIMM DDRII 667 1GB MT8HTF12864HDY-667G1 LF 64*16 0.065um
	SO2GBII6	Memory MICRON SO-DIMM DDRII 667 2GB MT16HTF25664HY-667G1 LF 128*8 0.065um
	SO2GBII6	Memory MICRON SO-DIMM DDRII 667 2GB MT16HTF25664HY-667G1 LF 128*8 0.065um
	SO2GBII6	Memory MICRON SO-DIMM DDRII 667 2GB MT16HTF25664HY-667G1 LF 128*8 0.065um
	SO2GBII6	Memory MICRON SO-DIMM DDRII 667 2GB MT16HTF25664HY-667G1 LF 128*8 0.065um
	SO2GBII6	Memory MICRON SO-DIMM DDRII 667 2GB MT16HTF25664HY-667G1 LF 128*8 0.065um
	SO2GBII6	Memory MICRON SO-DIMM DDRII 667 2GB MT16HTF25664HY-667G1 LF 128*8 0.065um
NANYA	SO1GBII6	Memory NANYA SO-DIMM DDRII 667 1GB NT1GT64UH8D0FN-3C LF 64*16 0.07um
	SO1GBII6	Memory NANYA SO-DIMM DDRII 667 1GB NT1GT64UH8D0FN-3C LF 64*16 0.07um
	SO1GBII6	Memory NANYA SO-DIMM DDRII 667 1GB NT1GT64UH8D0FN-3C LF 64*16 0.07um
	SO1GBII6	Memory NANYA SO-DIMM DDRII 667 1GB NT1GT64UH8D0FN-3C LF 64*16 0.07um
	SO1GBII6	Memory NANYA SO-DIMM DDRII 667 1GB NT1GT64UH8D0FN-3C LF 64*16 0.07um
	SO1GBII6	Memory NANYA SO-DIMM DDRII 667 1GB NT1GT64UH8D0FN-3C LF 64*16 0.07um
	SO2GBII6	Memory NANYA SO-DIMM DDRII 667 2GB NT2GT64U8HD0BN-3C LF 128*8 0.07um
	SO2GBII6	Memory NANYA SO-DIMM DDRII 667 2GB NT2GT64U8HD0BN-3C LF 128*8 0.07um
	SO2GBII6	Memory NANYA SO-DIMM DDRII 667 2GB NT2GT64U8HD0BN-3C LF 128*8 0.07um
	SO2GBII6	Memory NANYA SO-DIMM DDRII 667 2GB NT2GT64U8HD0BN-3C LF 128*8 0.07um
	SO2GBII6	Memory NANYA SO-DIMM DDRII 667 2GB NT2GT64U8HD0BN-3C LF 128*8 0.07um
	SO2GBII6	Memory NANYA SO-DIMM DDRII 667 2GB NT2GT64U8HD0BN-3C LF 128*8 0.07um

BRAND	Type	Description
SAMSUNG	SO1GBII6	Memory SAMSUNG SO-DIMM DDRII 667 1GB M470T2864EH3-CE6 LF 64*16 0.055um
	SO1GBII6	Memory SAMSUNG SO-DIMM DDRII 667 1GB M470T2864EH3-CE6 LF 64*16 0.055um
	SO1GBII6	Memory SAMSUNG SO-DIMM DDRII 667 1GB M470T2864EH3-CE6 LF 64*16 0.055um
	SO1GBII6	Memory SAMSUNG SO-DIMM DDRII 667 1GB M470T2864EH3-CE6 LF 64*16 0.055um
	SO1GBII6	Memory SAMSUNG SO-DIMM DDRII 667 1GB M470T2864EH3-CE6 LF 64*16 0.055um
	SO1GBII6	Memory SAMSUNG SO-DIMM DDRII 667 1GB M470T2864EH3-CE6 LF 64*16 0.055um
	SO2GBII6	Memory SAMSUNG SO-DIMM DDRII 667 2GB M470T5663EH3-CE6 LF 128*8 0.055um
	SO2GBII6	Memory SAMSUNG SO-DIMM DDRII 667 2GB M470T5663EH3-CE6 LF 128*8 0.055um
	SO2GBII6	Memory SAMSUNG SO-DIMM DDRII 667 2GB M470T5663EH3-CE6 LF 128*8 0.055um
	SO2GBII6	Memory SAMSUNG SO-DIMM DDRII 667 2GB M470T5663EH3-CE6 LF 128*8 0.055um
	SO2GBII6	Memory SAMSUNG SO-DIMM DDRII 667 2GB M470T5663EH3-CE6 LF 128*8 0.055um
	SO2GBII6	Memory SAMSUNG SO-DIMM DDRII 667 2GB M470T5663EH3-CE6 LF 128*8 0.055um
Modem		
	External USB Lite+LSI modem	External USB Lite+LSI modem
	External USB Lite+LSI modem	External USB Lite+LSI modem
	External USB Lite+LSI modem	External USB Lite+LSI modem
	External USB Lite+LSI modem	External USB Lite+LSI modem
	External USB Lite+LSI modem	External USB Lite+LSI modem
	External USB Lite+LSI modem	External USB Lite+LSI modem
NB Chipset		
AMD	AMDRS880M	AMD RS880M w/ HDCP EEPROM
	AMDRS880M	AMD RS880M w/ HDCP EEPROM
	AMDRS880M	AMD RS880M w/ HDCP EEPROM
	AMDRS880M	AMD RS880M w/ HDCP EEPROM
	AMDRS880M	AMD RS880M w/ HDCP EEPROM
	AMDRS880M	AMD RS880M w/ HDCP EEPROM

BRAND	Type	Description
ODD		
HLDS	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD HLDS Super-Multi DRIVE 9.5mm Tray DL 8X GU10N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD HLDS Super-Multi DRIVE 9.5mm Tray DL 8X GU10N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD HLDS Super-Multi DRIVE 9.5mm Tray DL 8X GU10N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD HLDS Super-Multi DRIVE 9.5mm Tray DL 8X GU10N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD HLDS Super-Multi DRIVE 9.5mm Tray DL 8X GU10N LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD HLDS Super-Multi DRIVE 9.5mm Tray DL 8X GU10N LF W/O bezel SATA (HF + Windows 7)
PANASONIC	NSM8XS9.5	ODD PANASONIC Super-Multi DRIVE 9.5mm Tray DL 8X UJ892 LF W/O bezel SATA GBAS2.0, (HF + Windows7)
	NSM8XS9.5	ODD PANASONIC Super-Multi DRIVE 9.5mm Tray DL 8X UJ892 LF W/O bezel SATA GBAS2.0, (HF + Windows7)
	NSM8XS9.5	ODD PANASONIC Super-Multi DRIVE 9.5mm Tray DL 8X UJ892 LF W/O bezel SATA GBAS2.0, (HF + Windows7)
	NSM8XS9.5	ODD PANASONIC Super-Multi DRIVE 9.5mm Tray DL 8X UJ892 LF W/O bezel SATA GBAS2.0, (HF + Windows7)
	NSM8XS9.5	ODD PANASONIC Super-Multi DRIVE 9.5mm Tray DL 8X UJ892 LF W/O bezel SATA GBAS2.0, (HF + Windows7)
	NSM8XS9.5	ODD PANASONIC Super-Multi DRIVE 9.5mm Tray DL 8X UJ892 LF W/O bezel SATA GBAS2.0, (HF + Windows7)
PLDS	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A4SH LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A4SH LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A4SH LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A4SH LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A4SH LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A4SH LF W/O bezel SATA (HF + Windows 7)

BRAND	Type	Description
SONY	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7)
TOSHIBA	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633C LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633C LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633C LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633C LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633C LF W/O bezel SATA (HF + Windows 7)
	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633C LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD TOSHIBA Super-Multi DRIVE 9.5mm Tray DL 8X TS-U633F LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD TOSHIBA Super-Multi DRIVE 9.5mm Tray DL 8X TS-U633F LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD TOSHIBA Super-Multi DRIVE 9.5mm Tray DL 8X TS-U633F LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD TOSHIBA Super-Multi DRIVE 9.5mm Tray DL 8X TS-U633F LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD TOSHIBA Super-Multi DRIVE 9.5mm Tray DL 8X TS-U633F LF W/O bezel SATA (HF + Windows 7)
	NSM8XS9.5	ODD TOSHIBA Super-Multi DRIVE 9.5mm Tray DL 8X TS-U633F LF W/O bezel SATA (HF + Windows 7)
SB Chipset		
AMD	AMDSB710	AMD SB710
	AMDSB710	AMD SB710
	AMDSB710	AMD SB710
	AMDSB710	AMD SB710
	AMDSB710	AMD SB710
	AMDSB710	AMD SB710
Software		

BRAND	Type	Description
	McAfee	Antivirus application McAfee
	McAfee	Antivirus application McAfee
	McAfee	Antivirus application McAfee
	McAfee	Antivirus application McAfee
	McAfee	Antivirus application McAfee
	McAfee	Antivirus application McAfee
VGA Chip		
AMD	M92SXT	AMD M92SXT 55nm 23mm*23mm S2 package
	M92SXT	AMD M92SXT 55nm 23mm*23mm S2 package
None	UMA	UMA (AMD)
	UMA	UMA (AMD)
	UMA	UMA (AMD)
	UMA	UMA (AMD)
VRAM		
	512M-DDR2(64*16*4)	512M-DDR2 64*16*4
	512M-DDR2(64*16*4)	512M-DDR2 64*16*4
WiFi Antenna		
WNC	PIFA	PIFA
	PIFA	PIFA
	PIFA	PIFA
	PIFA	PIFA
	PIFA	PIFA
	PIFA	PIFA

BRAND	Type	Description
Wireless LAN		
Foxconn	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros HB93 1x2 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros HB93 1x2 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros HB93 1x2 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros HB93 1x2 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros HB93 1x2 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros HB93 1x2 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Broadcomm 43225 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Broadcomm 43225 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Broadcomm 43225 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Broadcomm 43225 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Broadcomm 43225 BGN (HM)
	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Broadcomm 43225 BGN (HM)
	3rd WiFi BG	Foxconn Wirelss LAN Atheros HB95 1x1 BG (HM)
	3rd WiFi BG	Foxconn Wirelss LAN Atheros HB95 1x1 BG (HM)
	3rd WiFi BG	Foxconn Wirelss LAN Atheros HB95 1x1 BG (HM)
	3rd WiFi BG	Foxconn Wirelss LAN Atheros HB95 1x1 BG (HM)
	3rd WiFi BG	Foxconn Wirelss LAN Atheros HB95 1x1 BG (HM)
	3rd WiFi BG	Foxconn Wirelss LAN Atheros HB95 1x1 BG (HM)
Liteon	3rd WiFi 1x2 BGN	Liteon Wireless LAN Atheris HB93 1x2 BGN (HM) WN6602AH
	3rd WiFi 1x2 BGN	Liteon Wireless LAN Atheris HB93 1x2 BGN (HM) WN6602AH
	3rd WiFi 1x2 BGN	Liteon Wireless LAN Atheris HB93 1x2 BGN (HM) WN6602AH
	3rd WiFi 1x2 BGN	Liteon Wireless LAN Atheris HB93 1x2 BGN (HM) WN6602AH
	3rd WiFi 1x2 BGN	Liteon Wireless LAN Atheris HB93 1x2 BGN (HM) WN6602AH
	3rd WiFi 1x2 BGN	Liteon Wireless LAN Atheris HB93 1x2 BGN (HM) WN6602AH

Online Support Information

This section describes online technical support services available to help you repair your Acer Systems.

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them.

In the Technical Information section you can download information on all of Acer's Notebook, Desktop and Server models including:

- Service guides for all models
- User's manuals
- Bios updates
- Software utilities
- Spare parts lists
- TABs (Technical Announcement Bulletin)

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of our technical material.

Also contained on this website are:

- Detailed information on Acer's International Traveler's Warranty (ITW)
- Returned material authorization procedures
- An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all your technical queries.

We are always looking for ways to optimize and improve our services, so if you have any suggestions or comments, please do not hesitate to communicate these to us.